

Guido Faglia - Curriculum Vitae – Nov 2019

Personal Information

Family name, First name: FAGLIA GUIDO

Family status: two children – common law marriage

Researcher unique identifier(s):

<http://www.researcherid.com/rid/E-6991-2010>

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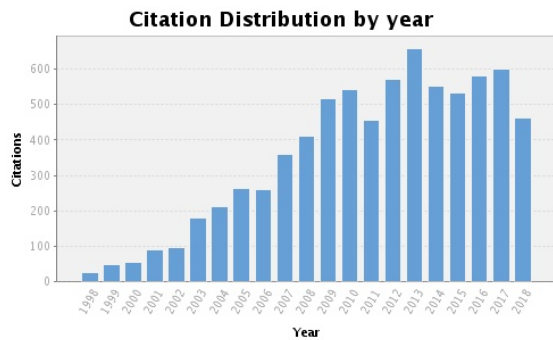
Date of birth: 27/09/1965

Guido Faglia was born in 1965 and got in 1991 M.S. degree cum laude from the Polytechnic of Milan in electronics. In 1993 he was appointed Assistant Professor at the Gas Sensor Lab by the University of Brescia. In 1996 got the PhD on semiconductor gas sensors. Since 2000 he is Associate Professor in Experimental Physics at University of Brescia. In 2013 he got Italian Full Professorship habilitation as excellent in Condensed Matter Physics 02/B1. He is involved in the study of preparation of metal oxide semiconductors MOX as thin films and quasi monodimensional nanostructures for gas sensing, energy (solar cells, thermoelectrics), opto-electronic applications (LEDs) and nanomedicine. He has been involved in European Commission Projects since 1992 (Project ESPRIT No. 6374) in basic and applied physics research on semiconductors and their application in an interdisciplinary field as biochemical sensing. He has a relevant working experience with many international institutions like EC, NATO, European Space Agency ESA, INTAS. He has coordinated (2012-2015) the project WIROX in the frame of FP7-PEOPLE-2011-IRSES.

During his career Guido Faglia has published 217 (authored) articles on International Journals with referee (<http://www.researcherid.com/rid/E-6991-2010>). His Hirsch factor is 47 on Scopus and 48 on WOS (Dec 2018); His Valutazione Qualità della Ricerca VQR 2004-2010 mean value is 0.98 on eleven considered products, while the VQR 2011-2014 is 0.92 on four products. He is referee of many international journals among which Advanced Materials, Angewandte Chemie, Small, Applied Physics Letters, Advanced Functional Materials, Scientific Reports, ACS Sensors and Sensors and Actuators B. He was co-editor of one book, co-authored seven chapters in books and filed three patents.

My Publications: Citation Metrics

This graph shows the number of times the articles on the publication list have been cited in each of the last 20 years. Note: Only articles from Web of Science Core Collection with citation data are included in the calculations.



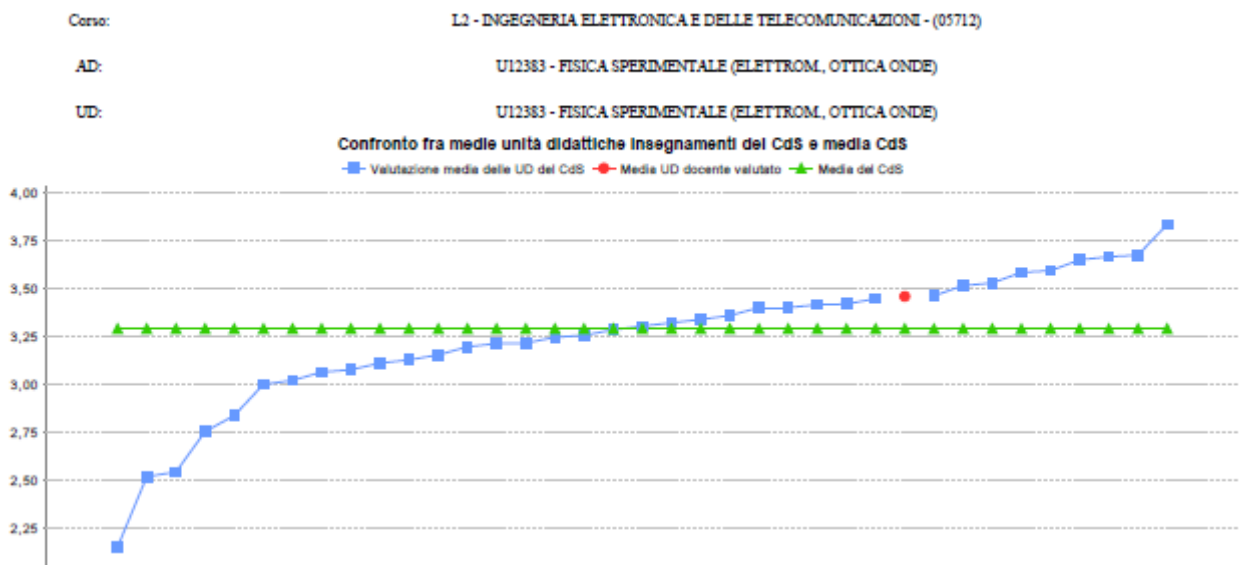
Total Articles in Publication List:	217
Articles With Citation Data:	217
Sum of the Times Cited:	7574
Average Citations per Article:	34.90
h-index:	45
Last Updated:	12/25/2018

Education

- 1998 Master in Solid State Physics at University of Ferrara (1998)
- 1996 PhD in Electronics (VII Ciclo, 1996) at University of Brescia
- 1990 Graduated cum laude in Electronics at Politecnico di Milano (a.a. 1989/90)

Academics

- Since November 2000 Associate Professor of Experimental Physics at Faculty of Engineering of University of Brescia. Courses: Experimental Physics Electricity and Magnetism, Physics of waves



Course score (red circle) as from student assessment compared to courses of the same degree course Electronics and Telecommunications Engineering – Academic Year 2014/15

- From February 1993 to October 2000 Assistant Professor in Physics of Matter at Faculty of Engineering of University of Brescia. Courses: Experimental Physics 1 & 2
- 2014-today Member of the doctorate school of Information Engineering; tutor of one PhD student Nicola Cattabiani (XXX Ciclo)

- 2000-2013 Member of the doctorate school in Materials for Engineering at University of Brescia since 2000. Tutor of three PhD students: Silvia Todros (XXII Ciclo), Raj Kumar (XXVII Ciclo) and Muhammad Ehsan Mazhar (XXVII Ciclo),
- Supervisor of three postdocs (Assegno di Ricerca): Silvia Todros (2010-11), Stefano Cagnasso (2008-09) and Federica Rigoni (2014-16)

Organisation Of Scientific Meetings

- Chair of Eurosensors 2014 School, Brescia, Sunday, September 7, 2014 - <http://www.eurosensors2014.eu/content/eurosensors-school>, 50 participants
- Since 2011 member of the organizing committee of NANOS-E3 conference Queensland, Australia. <http://wired.ivvy.com/event/NANO15/>
- Organizer of Session SENSORI e MEMS at Nanoforum 2009, Torino 9-11 June 2009, www.nanoforum.it. 862 participants, representing 243 Companies and Institutions
- 2007-2016 member of the Program Committee of the Smart Sensors, Actuators and MEMS Conference within the SPIE EUROPE Symposium 'MICROTECHNOLOGIES
- In 2006 Technical Program Chairman of the 11th International Meeting on Chemical Sensors, University of Brescia - Italy 16th-19th July 2006. The IMCS is the worldwide most important conference on the topic and represents an interdisciplinary forum on all aspect - physics, chemistry, materials science, development and application of chemical sensors. IMCS 11 was attended by more than 500 persons and organized in: 3 plenary lectures, 12 invited papers, 220 oral presentations and 222 poster presentations
- Member of the organizing committee of the XC Congresso Nazionale della Società Italiana di Fisica, Brescia 20-25 Settembre 2004

Institutional Responsibilities

- 2000-today Member of student curricula commission of Department of Information Engineering DII University of Brescia UNIBS
- 2013-today Member of "Commissione paritetica" joint committee professors/students of DII
- 2011-today Member of Mobility Committee of UNIBS
- 2010-2012 Elected Member of "Consiglio della Ricerca" Research Committee of UNIBS
- 2006-2012 Member of Library Committee of Engineering Faculty of UNIBS

Commissions Of Trust

- 2014-2015 Coordinator of Commessa (25 researchers) "Materiali nanostrutturati di ossidi metallici e altri semiconduttori per la sensoristica e applicazioni avanzate (MD.P03.045) at Istituto Nazionale di Ottica (INO-CNR)
- 2009-2013 Coordinator of Commessa (25 researchers) "MD.P05.015 Materiali nanostrutturati di ossidi metallici e altri semiconduttori per la sensoristica e

applicazioni avanzate" at Istituto di Acustica e Sensoristica Corbino (IDASC-CNR). See http://www.cnr.it/commesse/Scheda_Modulo.html?id_mod=5446

- 2012-today member of the Research Advisory Panel of CSIR National Centre for Nano-Structured Materials Pretoria South Africa <http://www.csir.co.za/>
- 2015, 2018, 2019 Evaluator for the Slovenian Research Agency - Public call for co-financing of research projects
- 2015-2016 Evaluator for University of Bordeaux -France Post-Doctoral Fellowships program
- 2017-today Evaluator for Italian Ministry of Education (Reprise)
- 2019 Evaluator for the Agence National de la Recherche (France)

Editorial Boards

- 2018-today: Member of editorial board of Sensors <https://www.mdpi.com/journal/sensors/editors#advisoryboard>

Memberships Of Scientific Societies

Member of the IEEE, SPIE, MRS, Italian Physical Society and European Physical Society

Major Collaborations (Name of collaborators, Topic, Name of Faculty/ Department/Centre/University/ Institution/ Country)

- Prof. Nunzio Motta , Gas Sensors and Solar Cells project WIROX, QUEENSLAND UNIVERSITY OF TECHNOLOGY-AU, Brisbane, AU
- Prof. JUAN MORANTE, Gas Sensors and Solar Cells project WIROX FP7-PEOPLE-2011-IRSES, FUNDACIO INSTITUT DE RECERCA DE L'ENERGIA DE CATALUNYA, BARCELONA, S
- Prof. Sanjay Mathur, Gas Sensors and Solar Cells project WIROX FP7-PEOPLE-2011-IRSES UNIVERSITAET ZU KOELN, Colonia, D
- Prof. G. Kiriakidis, Gas Sensors and Solar Cells project WIROX FP7-PEOPLE-2011-IRSES , FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS, Heraklion, G
- Prof. Federico Rosei , Gas Sensors and Solar Cells project WIROX FP7-PEOPLE-2011-IRSES, INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE-C, MONTREAL, C
- Prof- Ray Suprakas, Gas Sensors and Solar Cells project WIROX FP7-PEOPLE-2011-IRSES, COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH- ZA, Pretoria, ZA
- Dr. Kai Gehrke, LEDs Project ORAMA NMP-2009-2.2.1, Osram Opto Semiconductors – D Regensburg, D
- Prof. Pedro Barquina, Oxide preparation Project ORAMA NMP-2009-2.2.1, UNINOVA - INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS, Lisboa, P
- Dr. Barbara Malic, Oxide preparation Project ORAMA NMP-2009-2.2.1, INSTITUT JOZEF STEFAN JSI, Ljubljana, SL
- Prof. Maurizio De Crescenzi ,Università di Roma Tor Vergata, Roma, Gas Sensors, Roma, I

- Dr. Stefano Perugini, Build and marketing of gas sensors characterization systems, Kenosistec, Noviglio (MI), I
- Prof Martin Eickoff , Gas sensors, Justus-Liebig-Universität Gießen DI. Physikalisches Institut, Gießen, D
- Prof. Alexander Gaskov, Gas sensors, Lomonosov Moscow State University RU Department of Chemistry, Moscow, RU
- Dr. M. Fleischer, Gas Sensors, Siemens AG, Munchen, D
- Dr. Angelica Hackner, Gas Sensors EADS, Munchen, D
- Dr. P. Siciliano and Dr. Mauro Epiffani, Gas Sensors, C.N.R. istituto I.M.M., Lecce, I
- Prof. Kourosh Kalantar-Zadeh, Gas sensors, RMIT University Dip. di Communication and Electronic Engineering –Melbourne, AU
- Prof. U. Weimar and Prof. N. Barsan, Gas sensors, Eberhard Karls Universitaet Tuebingen, D
- Prof. G. Marrazza, Biosensors, Università di Firenze, I
- Dr. Michele Penza, Gas Sensors, ENEA C.R. Brindisi, I
- Dr Fabio Miletto Granozio, CNR-SPIN, UOS Napoli, I

Research Grants

- Project Coordinator "WIROX" Oxide Nanostructures for Wireless Chemical Sensing, PEOPLE MARIE CURIE ACTIONS, International Research Staff Exchange Scheme, PIRSES-GA-2011-295216, 2012-2015. Funding: 37,800€/317,100€ local/overall contribution
- Queensland Government Smart Futures Fund - National And International Research Alliances Program 2008-09 NIRAP, "Solar Powered Nano-Sensors For Data Acquisition And Surveying In Remote Areas", 09/2009-08/2012. Funding: AU\$168,533/AU\$1,452,877 local/overall contribution
- NATO 2006-2009 Science for Peace Programme CHEMICAL THREAT DETECTORS BASED ON MULTISENSOR ARRAYS AND SELECTIVE POROUS CONCENTRATORS Project CBP.NR.NRSFP 982166 Coordinator: Dr. F. Fajula Ecole Nationale Supérieure de Chimie Montpellier.
- PROGRAMMA BILATERALE DI COOPERAZIONE SCIENTIFICA E TECNOLOGICA TRA ITALIA E RUSSIA "Development and fabrication the diode heterostructures based on nanocrystalline oxides for gas sensor application", 2003-2004.
- INTAS 07/01-07/04 European Project "Metal oxide nanocomposites: in situ characterization of gas impact in relation with gas sensing phenomena".
- EU FP5 1/12/00-30/11/03 European Project COPERNICUS 2 'Environmental control by means of a new gas detection principle: Gas Sensing by Metal Oxides Hetero-junctions (GASMOH)'
- EU FP5 02/97-01/00 European Project INCO-COPERNICUS 'Environmental Control with the Aid of Sensor Technologies for GAS sensing (EASTGAS)'

1.1.1.1 *Research Grants: Italian National Projects*

- IIT Bando Project Seed 2009, "Metal oxide NANOWires as efficient high-temperature THERmoelectric Materials" (NANOTHER) 02/2010-02/2013. Role: Project Coordinator. Funding: 240,000€/240,000€ local/overall contribution
- FIRB "Rete Nazionale di Ricerca sulle Nanoscienze ItaNanoNet", Protocollo: RBPR05JH2P, 2010-2013. Role Coordinator of Brescia Unit. Funding:360,002€/7,200,000€ local/overall contribution
- MURST Programma di Ricerca Scientifica di rilevante interesse nazionale –anno 2004 - "Crescita e proprietà di nanocristalli quasi-unidimensionali di ossidi semiconduttori" 2005-2006. Funding:57,600€ local contribution
- INFN Linea di Ricerca BSE4 - Studio degli effetti dello scambio termico e di massa sul funzionamento di sensori di gas ad ossidi metallici semiconduttori, 2000-2003.
- INFN Sezione E PAIS 2001 "Multiparametric Sensor for Air Pollutants with Porous Silicon Optical Microcavities". Project Coordinator 2001-2003 . Funding:37,800€/317,100€ local/overall contribution
- ASI (Italian Space Agency) Project "Zeolites for an Environmental-Control Unit in Space" (ZEUS), 1/1/2001-31/12/2002. Funding
- C.N.R. Progetto Strategico Microsistemi Contratto di ricerca 95.01732.ST74 e 96.01013.ST74: 'Realizzazione su Si di un microsensore utilizzando il Si poroso come materiale innovativo', 1/09/95-3/05/98. Funding

1.1.1.2 *Research Grants: Other Projects*

- 10/2010-9/2014 European Project ORAMA "Oxide Materials Towards a Mature Post-silicon Electronics Era", NMP-2009-2.2.1 Collaborative Project, Large Scale Integrating Project, Local Unit unofficial coordinator. Unit Funding: 295,000€.
- Sept. 2009-Aug. 2012 European Project S3: Surface ionization and novel concepts in nano - MOX gas sensors with increased Selectivity, Sensitivity and Stability for detection of low concentrations of toxic and explosive agents (S3, project N. 247768), FP7 - NMP - 2009 - 1.2 - 3, Researcher in charge to write the project. Unit Funding: 595,000€.
- Jan. 2004 – Dec. 2006 European Project NANOS4 *Nano-structured solid-state gas sensors with superior performance* (NANOS4, project N. 001528), FP6-2002-NMP-1. Researcher in charge to write the project, then Project deputy coordinator. Unit Funding: 595,000€.
- 2005 Italian Ministry of Education Project PRIN "Nanosensori quasi mono- dimensionali per la biorilevazione ultra sensibile priva di marcatori" – area 02 physics, Researcher in charge to write the project, then project unofficial coordinator. Unit Funding: 114,000€.
- 2002 Italian Ministry of Education Project PRIN: Sviluppo di materiali nanostrutturati per sensori di gas selettivi ad altissima sensibilità per il monitoraggio di inquinanti atmosferici, Researcher in charge to write the project, then project deputy coordinator.

International Projects

- Project Coordinator "WIROX" Oxide Nanostructures for Wireless Chemical Sensing, PEOPLE MARIE CURIE ACTIONS, International Research Staff Exchange Scheme, PIRSES-GA-2011-295216, 2012-2016
- Queensland Government Smart Futures Fund - National And International Research Alliances Program 2008-09 NIRAP, "Solar Powered Nano-Sensors For Data Acquisition And Surveying In Remote Areas", 09/2009-08/2012
- NATO 2006-2009 Science for Peace Programme CHEMICAL THREAT DETECTORS BASED ON MULTISENSOR ARRAYS AND SELECTIVE POROUS CONCENTRATORS

Project CBP.NR.NRSFP 982166 Coordinator: Dr. F. Fajula Ecole Nationale Supérieure de Chimie Montpellier

- PROGRAMMA BILATERALE DI COOPERAZIONE SCIENTIFICA E TECNOLOGICA TRA ITALIA E RUSSIA "Development and fabrication the diode heterostructures based on nanocrystalline oxides for gas sensor application",2003-2004
- INTAS 07/01-07/04 European Project "Metal oxide nanocomposites: in situ characterization of gas impact in relation with gas sensing phenomena".
- EU FP5 1/12/00-30/11/03 European Project COPERNICUS 2 'Environmental control by means of a new gas detection principle: Gas Sensing by Metal Oxides Hetero-junctions (GASMOH)'
- EU FP5 02/97-01/00 European Project INCO-COPERNICUS 'Environmental Control with the Aid of Sensor Technologies for GAS sensing (EASTGAS)'

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- IIT Bando Project Seed 2009, "Metal oxide NANOWires as efficient high-temperature THERmoelectric Materials" (NANOTHER) 02/2010-02/2013. Role: Project Coordinator
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- INFN Sezione E PAIS 2001 "Multiparametric Sensor for Air Pollutants with Porous Silicon Optical Microcavities". Project Coordinator 2001-2003
- ASI (Italian Space Agency) Project "Zeolites for an Environmental-Control Unit in Space" (ZEUS), 1/1/2001-31/12/2002
- C.N.R. Progetto Strategico Microsistemi Contratto di ricerca 95.01732.ST74 e 96.01013.ST74: 'Realizzazione su Si di un microsensore utilizzando il Si poroso come materiale innovativo', 1/09/95-3/05/98

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- 2005 Italian Ministry of Education Project PRIN "Nanosensori quasi mono-dimensionali per la biorilevazione ultra sensibile priva di marcatori" – area 02 physics, Researcher in charge to write the project, then project unofficial coordinator

- Jan. 2004 – Dec. 2006 European Project NANOS4 *Nano-structured solid-state gas sensors with superior performance* (NANOS4, project N. 001528), FP6-2002-NMP-1. Researcher in charge to write the project, then Project deputy coordinator
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- 10/2010-9/2014 European Project ORAMA "Oxide Materials Towards a Mature Post-silicon Electronics Era", NMP-2009-2.2.1 Collaborative Project, Large Scale Integrating Project, Local Unit unofficial coordinator

Publications on peer reviewed journals

1. SBERVEGLIERI, G., G. FAGLIA, S. GROPELLI, P. NELLI, and A. CAMANZI, *A NEW TECHNIQUE FOR GROWING LARGE SURFACE-AREA SNO₂ THIN-FILM (RGTO TECHNIQUE)*. *Semiconductor Science and Technology*, 1990. **5**(12): p. 1231-1233
2. SBERVEGLIERI, G., G. FAGLIA, S. GROPELLI, and P. NELLI, *METHODS FOR THE PREPARATION OF NO, NO₂ AND H₂ SENSORS BASED ON TIN OXIDE THIN-FILMS, GROWN BY MEANS OF THE RF MAGNETRON SPUTTERING TECHNIQUE*. *Sensors and Actuators B-Chemical*, 1992. **8**(1): p. 79-88
3. SBERVEGLIERI, G., G. FAGLIA, S. GROPELLI, P. NELLI, and A. TARONI, *A NOVEL PVD TECHNIQUE FOR THE PREPARATION OF SNO₂ THIN-FILMS AS C₂H₅OH SENSORS*. *Sensors and Actuators B-Chemical*, 1992. **7**(1-3): p. 721-726
4. NELLI, P., E. DALCANALE, G. FAGLIA, G. SBERVEGLIERI, and P. SONCINI, *CAVITANDS AS SELECTIVE MATERIALS FOR QMB SENSORS FOR NITROBENZENE AND OTHER AROMATIC VAPORS*. *Sensors and Actuators B-Chemical*, 1993. **13**(1-3): p. 302-304
5. SBERVEGLIERI, G., G. FAGLIA, S. GROPELLI, P. NELLI, and C. PEREGO, *OXYGEN GAS-SENSING PROPERTIES OF UNDOPED AND LI-DOPED SNO₂ THIN-FILMS*. *Sensors and Actuators B-Chemical*, 1993. **13**(1-3): p. 117-120
6. SBERVEGLIERI, G., G. FAGLIA, R. RICCI, R. MURRI, and N. PINTO, *SELECTIVE AND SENSITIVE HUMIDITY SENSOR-BASED ON BARIUM-CHLORIDE DIHYDRATE*. *Sensors and Actuators B-Chemical*, 1993. **14**(1-3): p. 615-616
7. DINATALE, C., A. DAMICO, F. DAVIDE, G. FAGLIA, P. NELLI, and G. SBERVEGLIERI, *PERFORMANCE EVALUATION OF AN SNO₂-BASED SENSOR ARRAY FOR THE QUANTITATIVE MEASUREMENT OF MIXTURES OF H₂S AND NO₂*. *Sensors and Actuators B-Chemical*, 1994. **20**(2-3): p. 217-224
8. FAGLIA, G., P. NELLI, and G. SBERVEGLIERI, *FREQUENCY EFFECT ON HIGHLY SENSITIVE NO₂ SENSORS BASED ON RGTO SNO₂(AL) THIN-FILMS*. *Sensors and Actuators B-Chemical*, 1994. **19**(1-3): p. 497-499
9. SBERVEGLIERI, G., G. RINCHETTI, S. GROPELLI, and G. FAGLIA, *CAPACITIVE HUMIDITY SENSOR WITH CONTROLLED PERFORMANCES, BASED ON POROUS AL₂O₃ THIN-FILM GROWN ON SIO₂-SI SUBSTRATE*. *Sensors and Actuators B-Chemical*, 1994. **19**(1-3): p. 551-553
10. DINATALE, C., F. DAVIDE, A. DAMICO, G. SBERVEGLIERI, P. NELLI, G. FAGLIA, and C. PEREGO, *COMPLEX CHEMICAL-PATTERN RECOGNITION WITH SENSOR ARRAY - THE DISCRIMINATION OF VINTAGE YEARS OF WINE*. *Sensors and Actuators B-Chemical*, 1995. **25**(1-3): p. 801-804
11. DINATALE, C., F. DAVIDE, G. FAGLIA, and P. NELLI, *STUDY OF THE EFFECT OF THE SENSOR OPERATING TEMPERATURE ON SNO₂-BASED SENSOR-ARRAY PERFORMANCE*. *Sensors and Actuators B-Chemical*, 1995. **23**(2-3): p. 187-191
12. ENDRES, H., W. GOTTLER, H. JANDER, S. DROST, H. SANDMAIER, G. SBERVEGLIERI, G. FAGLIA, and C. PEREGO, *IMPROVEMENT IN SIGNAL EVALUATION METHODS FOR SEMICONDUCTOR GAS SENSORS*. *Sensors and Actuators B-Chemical*, 1995. **27**(1-3): p. 267-270
13. ENDRES, H., W. GOTTLER, H. JANDER, S. DROST, G. SBERVEGLIERI, G. FAGLIA, and C. PEREGO, *A SYSTEMATIC INVESTIGATION ON THE USE OF TIME-DEPENDENT SENSOR SIGNALS IN SIGNAL-PROCESSING TECHNIQUES*. *Sensors and Actuators B-Chemical*, 1995. **25**(1-3): p. 785-789
14. Anchisini, R., G. Faglia, M. Gallazzi, G. Sberveglieri, and G. Zerbi, *Polymeric humidity sensors: A device based on polyphosphazene membranes*. *Abstracts of Papers of the American Chemical Society*, 1996. **211**: p. 57-IEC

15. Anchisini, R., G. Faglia, M. Gallazzi, G. Sberveglieri, and G. Zerbi, *Polyphosphazene membrane as a very sensitive resistive and capacitive humidity sensor*. Sensors and Actuators B-Chemical, 1996. **35**(1-3): p. 99-102
16. Camagni, P., G. Faglia, P. Galinetto, C. Perego, G. Samoggia, and G. Sberveglieri, *Photosensitivity activation of SnO₂ thin film gas sensors at room temperature*. Sensors and Actuators B-Chemical, 1996. **31**(1-2): p. 99-103
17. Faglia, G., G. Benussi, L. Depero, G. Dinelli, and G. Sberveglieri, *NO₂ sensing by means of SnO₂(Al) thin films grown by the rheotaxial growth and thermal oxidation technique*. Sensors and Materials, 1996. **8**(4): p. 239-249
18. Ferroni, M., V. Guidi, G. Martinelli, G. Faglia, P. Nelli, and G. Sberveglieri, *Characterization of a nanosized TiO₂ gas sensor*. Nanostructured Materials, 1996. **7**(7): p. 709-718
19. Sberveglieri, G., G. Faglia, C. Perego, P. Nelli, R. Marks, T. Virgilli, C. Taliani, and R. Zambonin, *Hydrogen and humidity sensing properties of C-60 thin films*. Synthetic Metals, 1996. **77**(1-3): p. 273-275
20. Cardinali, G., L. Dori, M. Fiorini, I. Sayago, G. Faglia, C. Perego, G. Sberveglieri, V. Liberali, F. Maloberti, and D. Tonietto, *A smart sensor system for carbon monoxide detection*. Analog Integrated Circuits and Signal Processing, 1997. **14**(3): p. 275-296
21. Cazzanelli, M., L. Pavesi, O. Bisi, P. Dubos, P. Bellutti, G. Soncini, G. Faglia, and G. Sberveglieri, *On the route towards efficient light emitting diodes based on porous silicon*. Solid State Phenomena, 1997. **54**: p. 27-36
22. Faglia, G., F. Bicelli, G. Sberveglieri, P. Maffezzoni, and P. Gubian, *Identification and quantification of methane and ethyl alcohol in an environment at variable humidity by an hybrid array*. Sensors and Actuators B-Chemical, 1997. **44**(1-3): p. 517-520
23. Faglia, G., F. Bicelli, G. Sberveglieri, P. Maffezzoni, P. Gubian, and E. Tondello, *Quantification of gas mixtures by an array of tin oxide thin films through an artificial neural network*, in *Saa '96 - National Meeting on Sensors For Advanced Applications*. 1997. p. 185-191.
24. Guidi, V., G. Cardinali, L. Dori, G. Faglia, M. Ferroni, G. Martinelli, P. Nelli, G. Sberveglieri, and IEEE, *Novel gas sensor device based on thin MoO₃ film and low power-consumption micromachined Si-based structure*. Transducers 97 - 1997 International Conference on Solid-State Sensors and Actuators, Digest of Technical Papers, Vols 1 and 2, 1997: p. 943-946
25. Yang, B., M. Carotta, G. Faglia, M. Ferroni, V. Guidi, G. Martinelli, and G. Sberveglieri, *Quantification of H₂S and NO₂ using gas sensor arrays and an artificial neural network*. Sensors and Actuators B-Chemical, 1997. **43**(1-3): p. 235-238
26. Allieri, B., E. Comini, L. Depero, G. Faglia, L. Sangaletti, G. Sberveglieri, and N. White, *Influence of the deposition procedures on In₂O₃ thin films for ozone detection*, in *Euroensors Xii, Vols 1 and 2*. 1998. p. 489-492.
27. Baratto, C., E. Comini, G. Faglia, G. Sberveglieri, G. Di Francia, F. De Filippo, V. La Ferrara, L. Quercia, L. Lancellotti, and IAP, *Gas detection by photoluminescence and electrical measurements in porous silicon*. Technical Digest of the Seventh International Meeting on Chemical Sensors, 1998: p. 544-546
28. Comini, E., A. Cristalli, G. Faglia, G. Sberveglieri, and IAP, *Photoactivated In₂O₃ and SnO₂ thin film gas sensors*. Technical Digest of the Seventh International Meeting on Chemical Sensors, 1998: p. 925-927
29. Comini, E., A. Cristalli, G. Faglia, G. Sberveglieri, and IAP, *Photoactivation in gas sensor: A new method to reduce the working temperature*. Technical Digest of the Seventh International Meeting on Chemical Sensors, 1998: p. 509-511
30. Doll, T., A. Fuchs, I. Eisele, G. Faglia, S. Groppelli, and G. Sberveglieri, *Conductivity and work function ozone sensors based on indium oxide*. Sensors and Actuators B-Chemical, 1998. **49**(1-2): p. 63-67
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Invited Communications at National and International Congresses (since Jan 2007)

- G.Faglia, C. Baratto, F. Rigoni, N. Cattabiani, M. Donarelli, E. Comini, A. Ponzoni, Metal oxides nanophotonic and plasmonic applications in chemical sensing, S7: 11th International Symposium on Nanostructured Materials: Functional Nanomaterials and Thin Films for Sustainable Energy Harvesting, Environmental and Health, 41th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, 2017 Jan 22-Jan 27
- Faglia, C. Baratto, F. Rigoni, N. Cattabiani, M. Donarelli and E. Comini, Metal Oxide Chemical Sensing Applications of Plasmon Resonances, 2016 Emerging Technologies Conference, Montreal, Canada May 25 - 27, 2016,
- G. Faglia, C. Baratto, F. Rigoni, N. Cattabiani, M. Donarelli, E. Comini, Individual Oxide Nanowires for Nano-Optoelectronics, NanoS-E3 2015 International Workshop & School, 27 September - 2 October, Kingscliff, Australia
- G. Faglia, C. Baratto, E. Comini, I. Concina, M. Ferroni, A. Ponzoni, V. Galstyan, D. Zappa, G. Sberveglieri, Oxide Nanowires for Opto-electronics, S7: 7th International Symposium on Nanostructured Materials and Nanocomposites, 37th International Conference on Advanced Ceramics and Composites, Daytona Beach, 2013 Jan 27-Feb 1
- Keynote: G.Faglia, C. Baratto, E. Comini, I. Concina, M. Ferroni, A. Ponzoni, G. Vardan, A. Karakuscu, D. Zappa and G. Sberveglieri, Oxide Nanowires for Opto-electronics and Energy Harvesting, NanoS-E3 2013 International Workshop & School, 15 – 20 September 2013, Airlie Beach, Australia
- Faglia, G., Baratto C., Braga A., Comini E., Concina I., Ferroni M., Gobbi E., Ponzoni A., Soldano C., Vardan G., Karakuscu A., Vomiero A., Zappa D., Sberveglieri G, "Oxide Nanowires for Optoelectronics and Nanomedicine", 4th International Symposium on Transparent Conductive Materials, Crete 21-16th October 2012
- G.Faglia and G. Sberveglieri, Nanoscience and Nanotechnology for advanced Metal Oxides Gas Sensors, IEEE Sensors Applications Symposium SAS 2012 – Brescia 7-9th February 2012. Keynote talk

- G.Faglia, C. Baratto, A. Braga, E. Comini, I. Concina, M. Ferroni, A. Ponzoni, C. Soldano, G. Vardan, A. Vomiero, D. Zappa and G. Sberveglieri, Metal Oxide Nanowires for Sensing and Energy Applications, NanoS-E3, Peppers Salt Resort, Kingscliff, Australia 12 - 16 September 2011
- G. Faglia G. Sberveglieri, C. Baratto, E. Comini, I. Concina, , M. Falasconi, M. Ferroni, E. Gobbi, A. Ponzoni, V. Sberveglieri, A. Vomiero, D. Zappa, Nanotech Italy 2011, Venice, 23-25 November 2011
- G. Faglia, C. Baratto, A. Braga, E. Comini, I. Concina, M. Ferroni, V. Galstyan, G. Jimenez, I. Kholmanov, A. Ponzoni, S. Todros, A. Vomiero, G. Sberveglieri, Metal oxide nanowires for sensors and solar cells, ANM 2010, 3rd International Conference on Advanced Nano Materials, 12-15 September 2010 - Agadir, Morocco
- G. Faglia, C. Baratto, E. Comini, M. Ferroni, A. Ponzoni, S. Todros, D. Zappa and G. Sberveglieri, Metal Oxide Nanowires for chemical and bio-sensing, 3rd Workshop of the Sensors Divisional Group of the Italian Chemical Society, GS2010. Plenary Lecture. Università degli Studi di Firenze, Firenze (Italy), 26th – 28th October 2010
- G. Faglia, Oxide based nano sensors and devices as smart systems building blocks, SMART SYSTEMS INTEGRATION, Brussels, Belgium 10–11 March 2009
- G. Faglia, C. Baratto, E. Comini, I. Concina, M. Falasconi, M. Ferroni, G. Jimenez, M. Pardo, N. Poli, A. Ponzoni, S. Todros, A. Vomiero and G. Sberveglieri. Metal Oxide Nanowires for Functional Applications, Italian-Australian NanoE3 2008 Conference, Margaret River, Western Australia 22-24th September 2008.
- G. Faglia, C. Baratto, S. Bianchi, E. Comini, M. Ferroni, A. Ponzoni, S. Todros, A. Vomiero, G. Sberveglieri Nanotransistors (semiconductor based) for Electrical Biosensing, EMRS Symposium O, 28 May – 1 June 2007, Strasbourg, France

Lectures at National and International Schools (since Jan 2007)

- 2013, 2015, 2016 UNIBS Doctorate Course "How to write a proposal for Horizon 2020"
- Oct 2012 ORAMA" SUMMER SCHOOL October 20-21, 2012 Crete, GREECE, "Functional Metal Oxide Gas Sensor Devices"
- July 2011 Lecturer at S3 Summer School Igora / Konevets Island St. Petersburg, "MOX semiconductor surfaces" (8h)
- May 2010 Lecturer at 1st S3 Spring School "MOX Semiconductor Gas Sensor Technology – From Basics to Applications" Rimini May 2010 (5h)
- March 2010 Visiting professor and lecturer at QUT Brisbane, "Solid state chemical sensing" (25h)
- 2009 UNIBS Doctorate Course "How to write a proposal for FP7"
- April 2008 lecturer at Scuola di Dottorato in Ingegneria dell'Informazione, Università di Siena, "Solid state bio-chemical semiconductor sensors" (25h)
- October 2005 lecturer at Interpolytechnic (Turin, Milan, Bari) Doctorate School of Excellence , "Solid state gas sensors: principles and applications" in Turin-I (40h)

Referee activity (selected journals):

Angewandte Chemie International Edition (VCH), Advanced Materials (VCH), Advanced Functional Materials (VCH), Sensors and Actuators B (Elsevier), Scientific Reports (Nature)

Books

- E. Comini, G. Faglia, G. Sberveglieri, Solid State Gas sensing, edited by E.Comini, G. Faglia, G. Sberveglieri, Springer, New York, USA, 280 p. 180 illus., Hardcover ISBN: 978-0-387-09664-3. <http://www.springer.com/978-0-387-09664-3>. Since its online publication on August 24, 2008, there has been a total of 6,777 chapter downloads for the eBook on SpringerLink (2014 2.070, 2013 1.487, 2012 707, 2011 796, 2010 722, 2009 916, 2008 79)
- C. Baratto, E. Comini, G. Faglia, G. Sberveglieri (2012). The Power of Nanomaterial Approaches in Gas Sensors. In: Maximilian Fleischer Mirko Lehmann. Solid State Gas Sensors: Industrial Application. vol. 11, p. 53-78, BERLIN:Springer, doi: 10.1007/5346_2011_3
- Ponzoni, G. Faglia and G. Sberveglieri (Dec 2012). Quasi One-Dimensional Metal Oxide Nanostructures for Gas-Sensors. In: Zhai, Tianyou / Yao, Jiannian One-Dimensional Nanostructures, 576 Pages, Hardcover, ISBN 978-1-118-07191-5 - John Wiley & Sons
- Baratto, E. Comini, G. Faglia, M. Ferroni, A. Ponzoni, A. Vomiero, G. Sberveglieri (2010). Transparent metal oxide semiconductor as gas sensors. In: Antonio facchetti and Tobin J. Marks. Transparent electronics from synthesis to applications. vol. unico, p. 417-442, Wiley, ISBN: 9780470990773
- E. Comini, C. Baratto, G. Faglia, M. Ferroni, A. Vomiero, G. Sberveglieri (2010). Metal oxide nanowire-based chemical sensors. In: Ahmad Umar and Yoon-Bong Hahn. Metal oxide nanostructures and their applications. vol. 3, p. 129-181, American Scientific Publisher, ISBN: 9781588831767
- E. Comini, G. Faglia, G. Sberveglieri Chapter 2, Electrical based gas sensors, pages 47-99. In Solid State Gas sensing, edited by E.Comini, G. Faglia, G. Sberveglieri, Springer, New York, USA.
- E. Comini, G. Faglia, M. Falasconi, M. Ferroni, M. Pardo, G. Sberveglieri (2007). Odour unit qualification in landfill by innovative electronic nose based on metal oxide thin films. In: Ernest C. Lehmann. Landfill research focus. vol. unico, p. 117-134, Nova science publisher, ISBN: 9781600217753
- E. Comini, G. Faglia, G. Sberveglieri (2003). Photoactivation of semiconductor gas sensor operating at room temperature. In: Theodor Doll. Advanced gas sensing- the electroadsorptive effect and related techniques. vol. unico, p. 185-200, Kluwer academic publisher group, ISBN: 1-4020-7433-6

Patents

- 2004 - E. COMINI, SBERVEGLIERI G, FAGLIA G (2004). Sensore di monossido di carbonio a film sottile operante a temperatura ambiente. TO2004A000676, CNR

- 2003 - E. COMINI, GUIDO FAGLIA, GIORGIO SBERVEGLIERI, CAMILLA BARATTO, MATTEO FALASCONI (2003). Dispositivo sensore di gas a film sottile semiconduttore. TO2003A000318,CNR
- 2002 - E. COMINI, GIORGIO SBERVEGLIERI, GUIDO FAGLIA, MATTEO PARDO, MATTEO FALASCONI (2002). Camera miniaturizzata a flussi direzionali per le misure simultanee di una pluralità di sensori di gas, particolarmente adatta per i nasi elettronici. TO2002U000214, CNR

Other

- 2003-today Private Pilot Licence – General Aviation

Date and Place: Nov 2019 Gussago (Brescia)

Signature
