

## Valerio Paolini



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Scopus\*



## ESPERIENZA PROFESSIONALE

Da Dicembre 2018

### Ricercatore CNR IIA

- Da Dicembre 2018: Ricercatore a tempo indeterminato
- Marzo 2017 – Dicembre 2018: Ricercatore a tempo determinato

Ambito di ricerca: Impatto sull'atmosfera delle bioenergie e dei carburanti rinnovabili, con particolare attenzione al biometano. Altre aree di interesse includono la mobilità sostenibile e il recupero di risorse da sottoprodotti.

Partecipazione ai seguenti progetti di ricerca:

- DIVAIRCITY (2021-2023) Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement (Horizon 2020 LC-CLA-2020) **2021-in corso**
- IANOS (2020-2022) IntegrAted SolutionNs for the DecarbOnization and Smartification of Islands (Horizon 2020) **2020-in corso**
- FORUM - Frazione Organica Rifiuti Urbani Smart Management (POR CALABRIA FESR 2014- 2020) **2018-2020**
- PLASMARE - PLAStiche per nuovi MAteriali mediante un Riciclo Ecosostenibile (Ministero dell'Ambiente e della Tutela del Territorio e del Mare RIN DEC 2017/00132) **2018-2020**
- RINASCE – Recupero Innovativo di Nicotina e Acetato di Cellulosa da filtri di Sigarette per la Circular Economy (POR FESR Regione Lazio 2014-2020 – «Circular Economy ed Energia – Progetti Integrati»).**2018-2020**
- RECEPIT – RECupero di CELLulosa per Pannelli Isolanti Termoacustici dai pannolini (Kets tecnologie abilitanti POR FESR Lazio 2014-2020, Asse I – Ricerca e innovazione e Asse 3 – Competitività) **2018-2019**
- GREEN TENANTS – Sviluppo e validazione di sensori per il monitoraggio energetico ed ambientale degli edifici (POR FESR LAZIO 2014/2020 – Azione 3.3.1, Avviso pubblico "Bioedilizia e Smart Building") **2018-2019**
- ISAAC - Increasing Social Awareness and ACceptance of biogas and biomethane (Horizon 2020; Call: H2020-LCE-2015-3 Topic: LCE-14-2015). Member of the Technical Coordination Committee, involved in work packages WP2 (State of the art), WP3 (Overcoming social barriers) and WP7 (Institutional Communication and Capitalization) **2016-2018**
- Sviluppo di una metodologia innovativa per l'inertizzazione dell'amianto, abbattimento delle emissioni nocive e analisi di filiera complessiva (MATTM-Direzione generale per i rifiuti e l'Inquinamento; decreto direttoriale RINDEC 20016-4; protocollo RIN 0007262 12/05/2016). **2016-2018**

Partecipazione alle seguenti attività di consulenza:

- MOTUSENERGY – Determinazione del benzene nel tar da gassificazione di biomassa **2020**
- FATER – Valutazione del chemical oxygen demand nell'eluato della cellulosa ottenuta dal riciclo dei prodotti assorbenti per la persona **2019-2010**
- GM – Monitoraggio di un prototipo per l'upgrading del biogas con l'obiettivo di ridurre le emissioni di metano dall'off-gas in atmosfera **2017-2018**
- RIGEN – Due diligence per la tecnologia TCR (thermocatalytic reforming) presente in un impianto pilota presso il Fraunhofer UMSICHT di Sulzbach-Rosenberg (Germania) **2017**
- CAP – Monitoraggio di tre diverse tecnologie per la purificazione del biogas da fanghi di depurazione di Milano. **2016-2017**

Novembre 2012 – Febbraio 2017

### Assegnista CNR IIA

- Da Novembre 2016 a Febbraio 2017: Tematica "Caratterizzazione e purificazione di prodotti di impianti a biomassa e biogas, e analisi dell'impatto sull'atmosfera"
- Da Novembre 2012 a Novembre 2016: Tematica "Sviluppo di tecnologie per l'upgrading e il monitoraggio del biogas"

Partecipazione ai seguenti progetti di ricerca:

- SELVA - Sviluppo di strategie integrate per la produzione di energia da impianti a biomasse nel territorio del reatino e sue ricadute sulla qualità dell'aria SELVA (Convenzione tra Regione Lazio e CNR-IIA stipulata il

30/09/2009 Reg. Cron. 11557 del 20/10/2009). **2012-2016**

- Smartgrid - Driver per lo sviluppo di nuovi modelli energetici. (POR Calabria FESR 2007/2013 CCI N° 2007 IT 161 PO 008; DDS 14225 del 14 ottobre 2010 e DDS 3329 del 5 marzo 2013). Activity: development and monitoring of a small scale biomethane and compost production plant. **2014-2016**
- Sireja - Recupero e valorizzazione energetica delle biomasse in Calabria (POR Calabria FESR 2007/2013 CCI N° 2007 IT 161 PO 008; DDS 14225 del 14 ottobre 2010 e DDS 3329 del 5 marzo 2013). Activity: development of a methodology for tar removal from syngas, based on natural zeolites; evaluation of environmental impact. February 24th **2014-2016**
- Biogame - Un sistema economico di upgrading per piccoli flussi, da biogas a biometano, utilizzando tufo laziale (FILAS-CR-2011-1148 funded by Regione Lazio). Activity: development and monitoring of a prototype of biogas upgrading to biomethane for the removal of CO<sub>2</sub>. **2012-2014**
- Mobybriquettes - Ottimizzazione dei processi di raccolta, essiccazione e combustione di biomasse residuali (MATTM G.U. - serie V n. 150 del 21.12.2009). Activity: Monitoring of emissions and design of the abatement system. **2013-2014**

Giugno 2011-Giugno 2012

### Assistente di laboratorio didattico

Sapienza Università di Roma, Dipartimento di Chimica

- Vincitore della borsa di collaborazione (AA 2010/2011 e 2012/2013) per il corso Chimica Analitica I

## FORMAZIONE

2015	<b>Dottorato in Scienze Chimiche</b>	QE Q 8
	Sapienza Università di Roma . <i>Titolo tesi: Sampling artefacts of semivolatile aromatic compounds</i>	
2013	<b>Summer school on Organic Aerosol</b>	QE Q 7
	University of Gothenburg (Sweden)	
2012	<b>Laurea Magistrale in Chimica Analitica con lode</b>	QE Q 7
	Sapienza University of Rome <i>Titolo tesi: Campionamento di inquinanti organici su superfici silicee funzionalizzate</i>	
2010	<b>Laurea triennale in Chimica con lode</b>	QE Q 6
	Sapienza Università di Roma <i>Titolo tesi: Ancoraggio covalente dei nanotubi di carbonio su superfici di carbonio e oro tramite reazioni dei sali di diazonio</i>	

## PRODUZIONE SCIENTIFICA

### Patents

Guerriero E, Paolini V. *Functionalized siliceous filters for sampling and purification of organic compounds*; publication number: WO2014/049522A1; international application number (September 24th, 2013): PCT/IB2013/058813; priority number (September 28th, **2012**): ITRM20120464

### ISI Papers

Lista aggiornata:

- <https://scholar.google.it/citations?user=P8PC4n8AAAAJ&hl=en>
- <https://www.scopus.com/authid/detail.uri?authorId=57053593500>

Lista ad Aprile 2021 (\* = corresponding author):

Tomassetti L, Di Giuseppe D, Zoboli A, Paolini V\*, Torre M, Paris E, Gallucci F, Petracchini F, Guerriero E, Gualtieri AF (**2020**) Emission of fibres and atmospheric pollutants from the thermal treatment of asbestos containing waste (ACW) *Journal of Cleaner Production* 268, 122179

Tomassetti L, Torre M, Tratzi P, Paolini V, Rizza M, Segreto M, Petracchini F (**2020**) Evaluation of air quality and mobility policies in 14 large Italian cities from 2006 to 2016 *Journal of Environmental Science and Health, Part A* 55 (7), 886-902

M Segreto, L Principe, A Desormeaux, M Torre, L Tomassetti, P Tratzi, Paolini V, Petracchini F (**2020**) Trends in Social Acceptance of Renewable Energy Across Europe—A Literature Review *International Journal of Environmental Research and Public Health* 17 (24), 9161

Paolini V\*, Torre M, Giacomini W, Pastori M, Segreto M, Tomassetti L, Carnevale C, Gallucci F, Petracchini F, Guerriero E (**2019**) CO<sub>2</sub>/CH<sub>4</sub> separation by hot potassium carbonate absorption for biogas upgrading *International Journal of Greenhouse Gas Control* 83: 186-194 DOI: 10.1016/j.ijggc.2019.02.011

Paolini V\*, Tomassetti L, Segreto M, Borin D, Liotta F, Torre M, Petracchini F (**2019**). Asbestos treatment technologies. *Journal of Material Cycles and Waste Management* 21(2): 205–226 DOI: 10.1007/s10163-018-0793-7

- Paolini V.\*, Petracchini F, Carnevale M, Gallucci F, Perilli M, Esposito G, Segreto M, Galanti Occulti L, Scaglione D, Ianniello A, Frattoni M, (2018). Characterisation and cleaning of biogas from sewage sludge for biomethane production. *Journal of Environmental Management* 217C: 288-296 10.1016/j.jenvman.2018.03.113 0301-4797
- Paolini V.\*, Petracchini F, Segreto M, Tomassetti L, Naja N, Cecinato A (2018). Environmental impact of biogas: a short review of current knowledge. *Journal of Environmental Science and Health, Part A* 53(10): 899- 906 DOI 10.1080/10934529.2018.1459076
- Petracchini F, Liotta F, Paolini V., Perilli M, Paciucci L, Cerioni D, Gallucci F, Carnevale M, Bencini A. (2018). A novel pilot scale multi-stage system semi-dry anaerobic digestion reactor to treat food waste and cow manure. *International Journal of Environmental Science and Technology* 15:1999–2008 DOI 10.1007/s13762-017-1572-z
- Balducci C, Cecinato A, Paolini V., Guerriero E, Perilli M, Romagnoli P, Tortorella C, Iacobellis S, Giove A, Febo A (2018) Volatilization and oxidative artifacts of PM bound PAHs at low volume sampling (1): Laboratory and in-field evaluation. *Chemosphere* 200: 106-115 DOI 10.1016/j.chemosphere.2018.02.090
- Balducci C, Cecinato A, Paolini V., Guerriero E, Perilli M, Romagnoli P, Tortorella C, Nacci RM, Giove A, Febo A (2017). Volatilization and oxidative artifacts of PM bound PAHs at low volume sampling (2): evaluation and comparison of mitigation strategies effects. *Chemosphere* 189: 330-339 10.1016/j.chemosphere.2017.09.062
- Petracchini F, Paolini V.\*, Liotta F, Paciucci L, Facci E (2017). Vacuum swing adsorption on natural zeolites from tuffs in a prototype plant. *Environmental Progress and Sustainable Development* 36 (3): 887-894 DOI 10.1002/ep.12530
- Petracchini F, Romagnoli P, Paciucci L, Vichi F, Imperiali A, Paolini V.\*, Liotta F, Cecinato A (2017) Influence of transport from urban sources and local biomass combustion on the air quality of a mountain area. *Environmental Science and Pollution Research* 24(5): 4741-4754 DOI: 10.1007/s11356-016-8111-1
- Aquino A, Bonamente E, Buratti C, Cotana F, Castellani B, Paolini V., Petracchini F. (2016). Carbon Dioxide Removal with Tuff: experimental measurement of adsorption properties and breakthrough modeling using CFD approach. *Energy Procedia* 101C: 392-399 DOI: 10.1016/j.egypro.2016.11.050
- Petracchini F, Paciucci L, Vichi F, D'Angelo B, Aihati A, Liotta F, Paolini V.\*, Cecinato A (2016). Gaseous pollutants in the city of Urumqi, Xinjiang: spatial and temporal trends, sources and implications. *Atmospheric Pollution Research* 7 (5): 925-934. DOI: 10.1016/j.apr.2016.05.009
- Paolini V.\*, Petracchini F, Guerriero E, Bencini A, Drigo S (2016). Biogas cleaning and upgrading with natural zeolites from tuffs. *Environmental Technology* 37 (11): 1418-1427. DOI: 10.1080/09593330.2015.1118557
- Paolini V.\*, Guerriero E, Bacaloni A, Rotatori M, Benedetti P, Mosca S (2016). Simultaneous Sampling of Vapor and Particle-Phase Carcinogenic Polycyclic Aromatic Hydrocarbons on Functionalized Glass Fiber Filters. *Aerosol and Air Quality Research* 16 (1): 175-183. DOI: 10.4209/aaqr.2015.07.0476
- Arias de Fuentes O, Ferri T, Frasconi M, Paolini V., Santucci R (2010) Highly-Ordered Covalent Anchoring of Carbon Nanotubes on Electrode Surfaces by Diazonium Salt Reactions. *Angewandte Chemie International Edition* 50 (15), 3457-3461 DOI: 10.1002/anie.201006743

#### Conference proceedings

- Torre, M., Tomassetti, L., Segreto, M., Borin, D., Tratzi, P., Paolini, V., Petracchini, F., Paris, E., Gallucci, F. Development of a Long Energy Action Planning for Wood Biomass in Latium, Central Italy. *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Paris, E., Gallucci, F., Carnevale, M., Khalid, A., Paolini, V., Guerriero, E. Evaluation of the VOCs Emitted by the Combustion of Rice Straw *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Segreto, M., Torre, M., Tratzi, P., Tomassetti, L., Paolini, V., Borin, D., Petracchini, F. Social Acceptance of Bioenergy in Europe *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Tomassetti, L., Segreto, M., Torre, M., Borin, D., Tratzi, P., Paolini, V., Petracchini, F. Environmental Impact of Biogas in Europe *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Paris, E., Salerno, M., Tonolo, A., Drigo, C., Petracchini, F., Khalid, A., Paolini, V., Carnevale, M., Guerriero, E., Gallucci, F. Characterization of Emissions from Combustion of Agricultural Waste: Wheat Straw and Rice Straw *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Segreto, M., Torre, M., Tratzi, P., Tomassetti, L., Paolini, V., Borin, D., Petracchini, F. Case Study of a Small Scale Anaerobic Digester in Calabria, Southern Italy *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Carnevale, M., Petracchini, F., Salerno, M., Colantoni, A., Tonolo, A., Drigo, C., Paris, E., Guerriero, E., Paolini, V., Gallucci, F. Characterization of Agricultural Residues: Physical and Chemical Analysis for Energy Transformations *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Tomassetti, L., Torre, M., Palma, A., Segreto, M., Tratzi, P., Paolini, V., Petracchini, F., Carnevale, M., Gallucci, F. A Survey of Forestry Biomass Potential in Latium, Central Italy *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Torre, M., Borin, D., Segreto, M., Tomassetti, L., Paolini, V., Petracchini, F., Paris, E., Gallucci, F., Scaglione, D. Siloxanes Concentration and Removal in Biomethane from Sewage Sludge *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition* Lisbon (PT), 2019
- Borin, D., Torre, M., Segreto, M., Tomassetti, L., Paolini, V., Petracchini, F., Carnevale, M., Gallucci, F., Scaglione, D. Clarifying Agents Affect Chlorine Concentration in Biomethane from Sewage Sludge *EUBCE 2019 27<sup>th</sup> European*

*Biomass Conference and Exhibition Lisbon (PT), 2019*

Torre, M., Tomassetti, L., Palma, A., Segreto, M., Borin, D., Paolini, V., Petracchini, F. Development of a Regional Biomass Plant Inventory and Integration with Transportation Infrastructure in Latium, Central Italy *EUBCE 2019 27<sup>th</sup> European Biomass Conference and Exhibition Lisbon (PT), 2019*

Gallucci F, Pari L, Longo L, Carnevale M, Santangelo E, Colantoni A, Paolini V., Guerriero E, Tonolo A. Assessment of organic micropollutants (Pcdd/fs and pcbs) from biomass combustion in a small chp facility. *EUBCE 2018 26<sup>th</sup> European Biomass Conference and Exhibition Copenhagen (DK), May 14 -17<sup>th</sup> 2018.* pages 606-609 ISSN 2282-5819

Gallucci F, Longo L, Santangelo E, Guerriero E, Paolini V., Carnevale M, Colantoni A, Tonolo A. Assessment of syngas produced from gasification of olive tree pruning in a downdraft reactor. *EUBCE 2018 26<sup>th</sup> European Biomass Conference and Exhibition Copenhagen (DK), May 14 -17<sup>th</sup> 2018.* Pages 728-731 ISSN 2282-5819

Gallucci F, Carnevale M, Longo L, Paolini V., Guerriero E, Del Giudice A, Santangelo E, Tonolo A. Pyrolysis of giant reed (*Arundo donax*) for production of biochar. *EUBCE 2018 26<sup>th</sup> European Biomass Conference and Exhibition Copenhagen (DK), May 14 -17<sup>th</sup> 2018.* Pages 1137-1141 ISSN 2282-5819

Paolini V., Petracchini F, Carnevale M, Gallucci F, Perilli M, Paciucci L, Segreto M, Galanti Occulti L, Scaglione D, Frattoni M. Concentration and fate of siloxanes and other volatile organic compounds in biogas and biomethane from sewage sludge. "Sludge management in circular economy – SMICE 2018", Rome May 23-25 **2018**.

Paolini V., Petracchini F, Carnevale M, Gallucci F, Esposito G, Paciucci L, Segreto M, Galanti Occulti L, Scaglione D, Ianniello A. Role of clarifying agents on the final quality of biomethane from sewage sludge. "Sludge management in circular economy – SMICE 2018", Rome May 23-25 **2018**.

Paolini V., Petracchini F, Lo Piano C, Longo L, Colantoni A, Carnevale M, Gallucci F. Tar removal from syngas with natural zeolites from tuffs: wet scrubbing and catalytic cracking. *25<sup>th</sup> European Biomass Conference and Exhibition.* Stockholm, June 12-15<sup>th</sup> **2017** pages 784-787 ISSN 2282-5819

Petracchini F, Liotta F, Paolini V., Perilli M, Cerioni D, Gallucci F, Carnevale M, Bencini A. Multi-stage semi-dry anaerobic digestion of OFMSW and cattle manure improved by natural zeolites. *25<sup>th</sup> European Biomass Conference and Exhibition.* Stockholm, June 12-15<sup>th</sup> **2017** pages 932-934 ISSN 2282-5819

Longo L, Gallucci F, Pari L, Salerno M, Carnevale M, Paolini V., Colantoni A. Assessment of the Syngas Produced By Gasification of Vine Shoots in an Experimental Downdraft Reactor. *25<sup>th</sup> European Biomass Conference and Exhibition.* Stockholm, June 12-15<sup>th</sup> **2017** pages 803-807 ISSN 2282-5819

Paolini V., Petracchini F, Perilli M, Esposito G, Ianniello A, Frattoni M, Carnevale M, Gallucci F. A quality assessment for biomethane from sewage sludge. *REGATEC 2017 (4<sup>th</sup> International Conference on Renewable Gas Technology).* Pacengo (VR), May 22-23<sup>rd</sup> **2017** ISBN 978-91-981149-3-5

Aquino A, Bonamente E, Buratti C, Cotana F, Castellani B, Paolini V., Petracchini F. Carbon Dioxide Removal with Tuff: experimental measurement of adsorption properties and breakthrough modeling using CFD approach 71st Conference of the Italian Thermal Machines Engineering Association (ATI2016), Turin (Italy) September 14th-16th **2016**.

Guerriero E, Paolini V., Benedetti P, Mosca S, Cerasa M, Rotatori M, Bacaloni A. Functionalized glass fiber filters for the simultaneous sampling of vapour and particle phase PCDD/Fs and dl-PCBs. 36th International Symposium on Halogenated Persistent Organic Pollutants (DIOXIN 2016), Florence (Italy), August 28th - September 2nd **2016**. Published in *Organohalogen compounds* 78 (2016) 144-147, ISSN 1026-4892

Petracchini F, Balducci C, Perilli M, Cecinato A, Liotta F, Paolini V., Paciucci L. Environmental impact of biomass burning for civil uses onto a mountain area. 8th International Conference on Environmental Science and Technology. Houston (Texas, USA), June 6 -10th 2016. Published in: Sorial, G. and Hong, J.: *Environmental Science and Technology* **2016** Vol. 1. American Science Press, 2016, Houston, USA. (ISBN 978-5-5323-2259-4) page 353

Petracchini F, Cecinato A, Paciucci L, Paolini V., Liotta F. A preliminary assessment of major air pollutants in the city of Urumqi, China. 8th International Conference on Environmental Science and Technology. Houston (Texas, USA), June 6 -10th 2016. Published in: Sorial, G. and Hong, J.: *Environmental Science and Technology* 2016 Vol. 1. American Science Press, **2016**, Houston, USA. (ISBN 978-5-5323-2259-4) page 354

Paciucci L, Petracchini F, Cecinato A, Romagnoli P, Paolini V., Liotta F, Biscotto M. The need of statistical analysis for a better interpretation of the preliminary assessment results: IAPMS Pančevo. 8th International Conference on Environmental Science and Technology. Houston (Texas, USA), June 6 -10th 2016. Published in: Sorial, G. and Hong, J.: *Environmental Science and Technology* 2016 Vol. 1. American Science Press, **2016**, Houston, USA. (ISBN 978-5-5323-2259-4) page 355

Aquino A, Cotana F, Buratti C, Rossi F, Paolini V., Bonamente E, Petracchini F, Filippini M, Corsi N. Adsorption properties of tuff for carbon dioxide removal. 16th Convegno Nazionale del Centro Interuniversitario di Ricerca sull'Inquinamento e l'Ambiente Mauro Felli (CIRIAF). Assisi, April 7-9th **2016**.

Petracchini F, Balducci C, Perilli M, Cecinato A, Segreto M, Paolini V., Paciucci L. Environmental impact of biomass burning for civil uses onto a mountain area. 10th International Conference on Air Quality Science and Application. Milan, March 14-18th **2016**.

Petracchini F, Romagnoli P, Perilli M, Paciucci L, Paolini V., Liotta F, Cecinato A. Idrocarburi policiclici (IPA) nell'area montana di Leonessa: impatto della combustione di biomassa. *PM2016 - 8th Convegno Nazionale sul particolato atmosferico.* Rome, May 17-20th **2016**.

Paolini V., Rossi C, Facci E, Liotta F, Petracchini F. Tuff-based Biogas Upgrading for Biomethane production. *3rd International Conference on Renewable Energy Gas Technology.* Malmö (Sweden), 10-11<sup>th</sup> May **2016**.

Petracchini F, Paolini V., Zampetti E, Paciucci L, Liotta F, Segreto M, Papa P, Flammia V. Air pollution forecast compared with daily measurement at the island of Lampedusa. *10th International Conference on Air Quality Science and Application.* Milan, March 14-18<sup>th</sup> **2016**.

Paolini V, Petracchini F, Guerriero E, Drigo S. Biomethane production from olive mill effluents using an automatized baffled reactor followed by a vacuum swing adsorption on natural zeolites from tuffs. 15th International waste management and landfill symposium. S. Margherita di Pula (CA), October 5-9th 2015. ISBN 9788862650212 ISSN 2282-0027

Balducci C, Febo A, Paolini V, Cecinato A, Perilli M, Iacobellis S, Tortorella C. PAH sampling artifacts: evaluation and strategies to avoid them. 2015 European Aerosol Conference. Milan, September 6-11th 2015.

Paolini V, Petracchini F, Guerriero E, Bientinesi I. Anaerobic digestion of olive mill effluents in an automatized baffled reactor and biomethane production by vacuum swing adsorption on natural zeolites from tuffs. 3rd International Conference on Sustainable Solid Waste Management. Tinos (Greece), July 2-4th 2015.

Paolini V, Guerriero E, Petracchini F, Bencini A, Drigo S, Bientinesi I, Facci E. Purification and upgrading of biogas with natural zeolites from tuffs. 22nd European Biomass Conference and Exhibition. Hamburg (Germany), June 23-26th, 2014. ISSN 2282-5819

Paolini V, Bencini A, Petracchini F, Guerriero E, Drigo S, Bientinesi I, Facci E. Development of a low-scale automatized baffled reactor (ABR) for the digestion of MSW and olive mill effluents. 8th National Conference of Italian Association of Energy Management (AIGE). Reggio Emilia, June 9-10th 2014. ISBN: 9788894001105

Guerriero E, Petracchini F, Paolini V, Bencini A, Drigo S, Bientinesi I, Facci E. Use of Italian zeolites for purification and upgrading of biogas from organic municipal wastes and olive mill effluents, with the prospect of a re-entry into the national grid. 7th National Conference of Italian Association of Energy Management (AIGE). Rende (CS), June 10-11th 2013. ISBN: 978-88-97692-20-1

Bacaloni A, Rotatori M, Guerriero E, Paolini V, Insogna S. Simultaneous determination of particulate and gaseous phases of PAH in airborne by sampling with functionalized membrane filters. 29th National Conference of Italian Association of Industrial Hygienists (AIDII). Pisa, June 13th 2012.

Paolini V, Frison S, Insogna S, Pella A, Taglieri I. Functionalized surfaces for the sampling of semivolatile organic compounds. La Chimica per lo Sviluppo: Quinto Convegno Giovani. Rome, June 12-13th 2012.

Fuentes O, Ferri T, Frasca D, Paolini V, Zuccari G. Preparation Of MWCNTs Electrode Surfaces For Biosensing Purposes. Ibersensor 2010 7th Ibero-american Congress on Sensor. Lisbon (Portugal), November 11th 2010

#### Relazioni tecniche CNR

Lista completa disponibile al link: <http://www.cnr.it/peoplepublic/peoplepublic/index/scheda/u/valerio.paolini>

#### ALTRO

#### Editorial board membership

*Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environment Engineering* (since 2017) <https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=lesa20>

#### Guest editor of special issues

"*Environmental Sustainability of Renewable Gas Fuels for Energy and Transportation*", special issue of *Sustainability* (MDPI, ISSN 2071-1050, impact factor 2.59). Deadline for manuscript submissions: 1 March 2021. [https://www.mdpi.com/journal/sustainability/special\\_issues/Environmental\\_Sustainability\\_Renewable\\_Gas\\_Fuels\\_Energy\\_Transportation](https://www.mdpi.com/journal/sustainability/special_issues/Environmental_Sustainability_Renewable_Gas_Fuels_Energy_Transportation)

#### Chairman in scientific conferences

- Co-chair in session "Levels in the Environment (Air, Soil, Water)". 36<sup>th</sup> *International Symposium on Halogenated Persistent Organic Pollutants*, Florence (Italy), 2016
- Member of Advisory Committee and Chairman of 3 sessions (Air Quality assessment, Air Pollutant Monitoring, Hazardous Gas Bio-filtration). 8th *International Conference on Environmental Science and Technology (American Academy of Sciences)*, Houston (Texas, USA), 2016

#### Teaching

2<sup>nd</sup> level master "Smart Basicicata" ("Smart Cities and Communities and Social Innovation") "Environmental and energy impact of biofuels" (2018), at Basilicata University (Italy).

#### Peer review

Top peer reviewer (Publons 2017) in Environmental Science, Chemical Engineering, and Earth and Planetary Science. <https://publons.com/author/1212326/valerio-paolini#profile>

Selected list of journals (2015-2020): *Critical Reviews in Environmental Science and Technology, Environmental Pollution, Atmospheric Environment, Urban Climate, Waste Management, Fuel Processing Technology, Industrial Crops, Energy, Energy Conversion and Management, Journal of Environmental Management.*

Data  
15/04/2020

Firma

