CURRICULUM VITAE – MARCO VOCCIANTE

INFORMAZIONI PERSONALI

Cognome, Nome:	Vocciante, Marco
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- **FORMAZIONE**

2016 Dottorato in Ingegneria Chimica, Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Università di Genova, Italia – Prof. V.G. Dovì
Tesi di dottorato: "*Development of a general strategy for the solution of ill-posed problems in transport phenomena – Application to Richards' inverse problem*". Valutazione: *Excellent*
Tematiche: Modellazione di processo per l'efficienza energetica e la tutela dell'ambiente
Settore scientifico disciplinare: ING-IND/26 (09/D2)

2012 Laurea Specialistica in Ingegneria Chimica (27/S), Dipartimento di Ingegneria Chimica, Università di Napoli Federico II, Italia – Prof. P.L. Maffettone (Punteggio: 110/110 cum laude)

2010 Laurea Triennale in Ingegneria Chimica (10), Dipartimento di Ingegneria Chimica, Università di Napoli Federico II, Italia – Prof. P.L. Maffettone (Punteggio: 110/110 cum laude)

- **POSIZIONE ATTUALE**

2021 → Ricercatore a tempo determinato (RTDb), Dipartimento di Chimica e Chimica Industriale (DCCI), Università di Genova, Italia (passaggio a professore associato entro il 2024)

- **POSIZIONI PRECEDENTI**

2018 – 2021 Ricercatore a tempo determinato (RTDa), DCCI, Università di Genova, Italia

2016 – 2018 Assegnista post dottorato, DCCI, Università di Genova, Italia – Prof. V.G. Dovì

- **FELLOWSHIPS AND AWARDS**

2023 Abilitazione Scientifica Nazionale a Professore (I fascia) nel settore **09/D3** ("Impianti e processi chimici industriali") – Ministero dell'Istruzione, dell'Università e della Ricerca (validità: 9 anni)

2020 Abilitazione Scientifica Nazionale a Professore (II fascia) nel settore **09/D2** ("Sistemi, metodi e tecnologie di ingegneria chimica e di processo") – Ministero dell'Istruzione, dell'Università e della Ricerca (validità: 9 anni)

2020 Premio "*Applied Sciences 2020 Travel Awards"* nella sezione "*Environmental and Sustainable Science and Technology*", Applied Sciences, MDPI

2019 Finanziamento di ricerca DAAD[1], "*Investigation on the turbulent regime in the channel between Pillow-plates using OpenFOAM®*", Facoltà di Ingegneria Meccanica, Cattedra di Ingegneria dei Fluidi di Processo, Università di Paderborn, Germania – Prof. E.Y. Kenig

2017 Finanziamento di ricerca DAAD, "*Investigation on the falling liquid film on the surface of the Pillow-Plates using OpenFOAM®*", Facoltà di Ingegneria Meccanica, Cattedra di Ingegneria dei Fluidi di Processo, Università di Paderborn, Germania – Prof. E.Y. Kenig

2013 *Abilitazione alla Professione di Ingegnerie Industriale* – Ordine degli Ingegneri della Provincia di Napoli, Italia

- **ESPERIENZE ALL'ESTERO PER MOTIVI DI STUDIO E RICERCA**

2017-2023 *Borsa di ricerca UniGe*, Università di Paderborn, Germania (6 soggiorni, 18 mesi in totale)

2017-2019 *Borsa di ricerca DAAD*, Università di Paderborn, Germania (2 soggiorni, 9 mesi in totale)

2015 *Esperienza all'estero nell'ambito del dottorato*, Università di Paderborn, Germania (6 mesi)

2011 *Programma ERASMUS*, Università di Oviedo, Spagna (6 mesi)

[1] *Deutscher Akademischer Austaschdienst (German Academic Exchange Service*) - Call for proposals on an international competitive basis

- **ATTIVITÀ DIDATTICA** (1 CFU = 8h; in parentesi le ore effettive quando diverse)

2022/23 → Titolare dell'insegnamento " Modellizzazione e simulazione numerica del comportamento dei materiali nell'industria di processo", 4 CFU (44h), Laurea Magistrale in Scienza e Tecnologia dei Materiali, Università di Genova, Italia

2019/20 → Co-Titolare dell'insegnamento "Teoria dello Sviluppo dei Processi Chimici", 6 CFU (12h in 2020, 30h successivamente), Laurea in Ingegneria Chimica, Università di Genova, Italia

2018/19 → Titolare dell'insegnamento "Economia dei Processi Produttivi", 6 CFU, Laurea Magistrale in Scienza e Tecnologia dei Materiali, Università di Genova, Italia

2019/20 Titolare dell'insegnamento "Fondamenti di Controllo dei Processi Chimici", 2 CFU (20h), Dottorato in Ingegneria Chimica, dei Materiali e dei processi, Università di Genova, Italia

2017/18 Assistente didattico dell'insegnamento "Sintesi e Controllo dei Processi", 6 CFU (15h), Laurea in Ingegneria Chimica, Università di Genova, Italia

- **ORGANIZZAZIONE DI CONFERENZE SCIENTIFICHE**

2018 Membro del comitato organizzativo di XVII ABC (Congresso Nazionale di Chimica Ambientale e Beni Culturali), Genova, Italia, 25-27 giugno 2018

- **PARTECIPAZIONE A CONFERENZE INTERNAZIONALI**

2023 Speaker at CTE4 (International Scientific and Practical Conference on Chemical Technology and Engineering), Lviv, Ukraine, 26-29 giugno 2023
Speaker at ICheaP16 (International Conference on Chemical & Process Engineering), Naples, Italy, 04-07 giugno 2023

2022 Speaker at PRES'22 (Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction), Bol, Croatia, 05-08 settembre 2022
Speaker at CISAP10 (Safety & Environment in Process & Power Industry), Florence, Italy, 08-11 maggio 2022

2021 Speaker at PRES'21 (Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction), Brno, Czech Republic, 31 ottobre - 03 novembre 2021
Speaker & Chairman at ICheaP15 (International Conference on Chemical & Process Engineering), Naples, Italy, 23-25 maggio 2021

2019 Speaker & Chairman at PRES'19 (Process Integration, Modelling and Optimization for Energy Saving and Pollution Reduction), Agios Nikolaos, Crete, Greece, 20-23 ottobre 2019
Speaker NINE 2019 (Nanotechnology Based Innovative Applications for the Environment), Naples, Italy, 14-17 aprile 2019

2018 **Keynote** Speaker at SDEWES 2018 (Sustainable Development of Energy, Water and Environment Systems), Palermo, Italy, 30 settembre - 04 ottobre 2018
Speaker at PRES 2018 (Process Integration, Modelling and Optimization for Energy Saving and Pollution Reduction), Prague, Czech Republic, 25-27 agosto 2018
Speaker & Chairman at ESCAPE28 (European Symposium on Computer-Aided Process Engineering), Graz, Austria, 10-13 giugno 2018

2015 Speaker at ICheaP12 (International Conference on Chemical & Process Engineering), Milan, Italy, 19-22 maggio 2015

2014 Speaker at PRES 2014 (Process Integration, Modelling and Optimization for Energy Saving and Pollution Reduction), Prague, Czech Republic, 23-27 agosto 2014

2013 Speaker at SDEWES 2013 (Sustainable Development of Energy, Water and Environment System), Dubrovnik, Croatia, 22-27 settembre 2013

- **RESPONSABILITÀ ISTITUZIONALI**

2019 → Coordinatore Erasmus+ per l'interscambio con l'Università di Paderborn, DCCI, Università di Genova, Italia

- **AFFILIAZIONE A SOCIETÀ SCIENTIFICHE**

2018/19 Italian Chemical Society (SCI) membership

- **ATTIVITÀ EDITORIALI/DI REVISIONE**

2023 → Membro del comitato editoriale per la sezione "*Ecology Science and Engineering*", Applied Sciences (ISSN 2076-3417), rivista internazionale, peer-reviewed, ad accesso libero, su tutti

gli aspetti delle scienze naturali applicate, I.F. 2.7, SJR – Q2(*Engineering, Miscellaneous*), JRC – Q1(*Engineering, Multidisciplinary*) (MDPI).

2023 → *Guest Editor* dello *Special Issue* "*Sustainable Environmental Engineering*", Applied Sciences (ISSN 2076-3417), rivista internazionale, peer-reviewed, ad accesso libero, su tutti gli aspetti delle scienze naturali applicate, I.F. 2.7, SJR – Q2(*Engineering, Miscellaneous*), JRC – Q1(*Engineering, Multidisciplinary*) (MDPI) – 1 articolo pubblicato.

2022 → *Guest Editor* dello *Special Issue* "*Heavy Metal and Potentially Toxic Elements (PTE) Contamination of Soil*", Environments (ISSN 2076-3298), rivista internazionale, peer-reviewed, ad accesso libero, che si concentra sui progressi, le questioni e le sfide relative ai sistemi ambientali, I.F. 3.7, SJR – Q2(*Ecology, Evolution, Behavior and Systematics*), JRC – Q2(*Ecology, Evolution, Behavior and Systematics*) (MDPI) – 5 articoli pubblicati.

2019-2022 *Guest Editor* degli *Special Issues "Sustainable Environmental Solutions"* e *"Sustainable Environmental Solutions II",* Applied Sciences (ISSN 2076-3417), rivista internazionale, peer-reviewed, ad accesso libero, su tutti gli aspetti delle scienze naturali applicate, I.F. 2.474, SJR – Q1(*Engineering, Miscellaneous*), JRC – Q2(*Engineering, Multidisciplinary*) (MDPI) – 20 articoli pubblicati complessivamente.

Ad oggi *Reviewer* per Chemical Engineering Journal, Journal of Cleaner Production, Environmental Pollution, Journal of Environmental Management, Science of The Total Environment, International Journal of Electrochemistry, Journal of Soils and Sediments, Environmental Science and Pollution Research, Molecules, Hydrometallurgy, Minerals, Applied Sciences.

- **PROGETTI E FINANZIAMENTI**

2024 → Principal Investigator del **Progetto EKRT** sull'analisi tecnica, economica, di sostenibilità e dei rischi associati della tecnologia di bonifica elettrocinetica, in collaborazione con ENI Rewind S.p.A., Eni Environmental and Biological Laboratories e la società di ingegneria Stantec S.p.A.

Project title	EKRT (ElectroKinetic Remediation Technology)
Funding source	Eni Rewind S.p.A.
Amount[2]	63 k€
Period	12 months, starting in 2024.01
Role	Principal Investigator
Details	Project design and conduction support for a pilot-scale test of an innovative variant of EKRT developed in collaboration with Eni s.p.a. (including identification of equipment and resources needed, optimal configuration in terms of contaminant removal effectiveness, and cost estimation) for application to the remediation of a contaminated site of national interest.
Previous contract	7 months, starting in 2023, 35k€, PI. Details: Technical and associated risk analysis of EKRT (Eni version), with particular attention to its peculiar characteristics compared to other electrokinetic approaches, and assessments of its applicability for the remediation of a contaminated site of national interest.

2023 → Principal Investigator del **Progetto OptiMet** sull'ottimizzazione e il controllo dei processi metallurgici EAF, in collaborazione con l'azienda di automazione industriale IsoSistemi S.r.l. e l'acciaieria NLMK-Verona Meltshop S.p.A.

Project title	OptiMet
Funding source	IsoSistemi S.r.l.
Amount	15.2 k€ (Open contract – expected total amount: 40k€)
Period	Orders of 5-10 months depending on company needs
Role	Principal Investigator
Details	Development and implementation of the "OptiMet" system, a powerful and innovative tool combining both an accurate metallurgical model and an advanced mathematical optimizing procedure to deal with EAF processes with a high degree of reliability and accuracy

[2] *Amounts refer to the budget assigned to the candidate or his affiliation structure*

2021 - 2023 Principal Investigator del **Progetto ReTeST** sull'analisi tecnica, economica, di sostenibilità e dei rischi associati delle tecnologie ambientali innovative, in collaborazione con Eni S.p.A. e Research Institute on Terrestrial Ecosystems - National Research Council. Il proseguimento dell'attività è previsto per l'inizio del 2025.

Project title	ReTeST (Remediation Technology Selection Tool)
Funding source	Eni S.p.A.
Amount[3]	85 k€
Period	14 months (2 months in late 2021 + 12 months starting in 2022.05)
Role	Principal Investigator
Details	Technical, economic, sustainability and associated risk analysis of consolidated and innovative reclamation technologies and development of a methodology for the optimal choice of the remediation technologies based on multi-objective optimization algorithms.
Previous contract	2 years, starting in late 2017, 54k€, Participant

2013 - 2015 Membro del gruppo di ricerca di **LILIEX (Progetto EUREKA)** sul recupero dei metalli dai rifiuti, in collaborazione con ENEA Research Centre

Project title	LILIEX
Funding source	European Union, EUREKA (E! 3895 LILIEX)
Amount	100 k€
Period	3 years, starting in 2013
Role	Participant
Details	Recovery of metals from wastes: chemico-physical simulation and optimization of Hydrometallurgy Processes

2013 - 2015 Membro del gruppo di ricerca di **EFENIS (Progetto Europeo FP7)** sullo sviluppo di efficienti soluzioni energetiche integrate per le industrie manifatturiere, in collaborazione con IPLOM Refinery S.p.A.

Project title	EFENIS (Efficient Energy Integrated Solutions for Manufacturing Industries)
Funding source	European Union, 7th Framework Programme (FP7-ENERGY 296003)
Amount	250 k€
Period	4 years, starting in 2012
Role	Participant
Details	Development of a general strategy for heat and mass reconciliation exportable to any manufacturing facility in view of a "total integrated site optimization"

- **Ulteriori finanziamenti per la ricerca**
  - Borsa di ricerca DAAD - *Short-Term Grant*, 2019 (57442045) – Amount: 4k€
  - Borsa di ricerca DAAD - *Short-Term Grant*, 2017 (57314022) – Amount: 6k€
  - Borsa di ricerca UniGe - *Funding for technology transfer and internationalization*, 2017/23 – Total Amount: 18k€

- **COLLABORAZIONI PRINCIPALI**

Sulla riconciliazione dei dati di processo, l'intensificazione e l'ottimizzazione dell'energia:
- Petar Varbanov, Faculty of Mechanical Engineering, Brno University of Technology, Czech Republic
- Zdravko Kravanja and Lidija Čuček, Faculty of Chemistry and Chemical Engineering, University of Maribor, Slovenia
- Valter Mantelli, IPLOM Refinery SpA, Genova (GE), Italy

Studio e modellazione della fluidodinamica delle apparecchiature:
- Eugeny Y. Kenig, Faculty of Mechanical Engineering, Paderborn University, Germany
- Pier Luca Maffettone, Department of Chemical, Materials and Industrial Production Engineering, University of Naples "Federico II", Italy

Ricerca e sviluppo sulle tecnologie di bonifica:
- Elisabetta Franchi and Alessandra de Folly d'Auris, Eni SpA, Decarbonization and Environmental R&D, S. Donato Milanese (MI), Italy

[3] *Amounts refer to the budget assigned to the candidate or his affiliation structure*

- Gianniantonio Petruzzelli, Francesca Pedron and Meri Barbafieri, Institute of Research on Terrestrial Ecosystems, National Council of Research, Pisa (PI), Italy
- Sergio Ferro, Ecas4 Australia Pty Ltd, South Australia

Recupero di materie prime dai rifiuti urbani e industriali / economia circolare:

- Loris Pietrelli, ENEA Casaccia Research Centre, Roma (RM), Italy
- Iolanda Francolini and Antonella Piozzi, Department of Chemistry, Sapienza University of Rome, Italy

Gestione e automazione dei processi metallurgici:

- Francesca Belgrano, IsoSistemi srl, Genova (GE), Italy
- Francesco Venturi and Minut Florin, NLMK Meltshop SpA, Verona (VR), Italy

Sintesi di nanoparticelle con metodi innovativi e sostenibili:

- Andrea P. Reverberi, DCCI, University of Genova, Italy
- Gaetano D'Avino and Marco Trofa, Department of Chemical, Materials and Industrial Production Engineering, University of Naples "Federico II", Italy

- **EARLY ACHIEVEMENTS TRACK-RECORD** (Fonte: Scopus - SC ID: 55967170900)

Sono autore di **78 pubblicazioni** su riviste ISI con revision paritaria, incluse Renewable and Sustainable Energy Reviews (1), Chemical Engineering Journal (4), Journal of Cleaner Production (4), Journal of Environmental Management (4), Science of the Total Environment (1), and Energies (2). Complessivamente, le mie pubblicazioni hanno ottenuto **1343 citazioni** (948 se si escludono le autocitazioni), e **il mio h-index è 22**. Sono il primo autore di 23 ed il *corresponding author* di 40 su 78 lavori. **69 delle 78 pubblicazioni non coinvolgono il mio relatore di dottorato**, con il quale ho mantenuto una collaborazione scientifica attiva nel corso degli anni. Infine, sono autore di **2 capitoli di libri**.

I dettagli sulle principali linee di ricerca sono riportati nell'Appendix A.

L'elenco completo delle pubblicazioni è riportato in Appendix B.

Articoli *peer-reviewed*	78
Citazioni (autocitazioni escluse)	1343 (948)
H-index (autocitazioni escluse)	22 (19)
Articoli che non coinvolgono il supervisore del dottorato	69
Primo – Ultimo – *Corresponding Author*	23 – 27 – 40

Appendix A: Dettagli sulle principali linee di ricerca

Riporto qui una breve selezione di 10 contributi recenti che rappresentano alcune delle mie linee di ricerca (il numero di citazioni è indicato tra parentesi [] - Fonte: Scopus - SC ID: 55967170900).

1. Pietrelli L., Ippolito N.M., Ferro S., Dovì V.G., Vocciante M.*, *Removal of Mn and As from Drinking Water by Red Mud and Pyrolusite*, Journal of Environmental Management (2019), 237:526-533. https://doi.org/10.1016/j.jenvman.2019.02.093 [57]
2. Pietrelli L., Ferro S., Vocciante M.*, *Eco-friendly and cost-effective strategies for metals recovery from Printed Circuit Boards*, Renewable and Sustainable Energy Reviews (2019), 112:317-323. https://doi.org/10.1016/j.rser.2019.05.055 [33]
3. Pietrelli L., Ferro S., Reverberi A.P., Vocciante M.*, *Removal and recovery of heavy metals from tannery sludge subjected to plasma pyro-gasification process*, Journal of Cleaner Production (2020), 273:123166. https://doi.org/10.1016/j.jclepro.2020.123166 [28]

Le pubblicazioni da 1 a 3 riguardano lo sviluppo di strategie per una risposta sostenibile alla carenza di materie prime, recuperandole dai rifiuti urbani e industriali attraverso approcci innovativi di separazione e processi integrati, o riutilizzando sottoprodotti e prodotti di scarto dei processi industriali. In questa linea di ricerca convergono diverse soluzioni tecniche e impiantistiche volte ad affrontare problemi di varia natura con approcci innovativi, in linea con i concetti di sostenibilità ambientale, tutela delle risorse naturali e con gli aspetti legati all'innovazione tecnologica e all'economia circolare.

4. Vocciante M.*, De Folly D'Auris A., Finocchi A., Tagliabue M., Bellettato M., Ferrucci A., Reverberi A., Ferro S., *Adsorption of Ammonium on Clinoptilolite in Presence of Competing Cations: Investigation on Groundwater Remediation*, Journal of Cleaner Production (2018), 198:480-487. https://doi.org/10.1016/j.jclepro.2018.07.025 [74]
5. Vocciante M.*, Bagatin, R., Ferro, S., *Enhancements in ElectroKinetic Remediation Technology: Focus on water management and wastewater recovery*, Chemical Engineering Journal (2017), 309:708–716 [47]
6. Franchi E., Cosmina P., Pedron F., Rosellini I., Barbafieri M., Petruzzelli G., Vocciante M.*, *Improved Arsenic Phytoextraction by Combined Use of Mobilizing Chemicals and Autochtonous Soil Bacteria*, Science of the Total Environment (2019), 655:328-336. https://doi.org/10.1016/j.scitotenv.2018.11.242 [55]
7. Vocciante M.*, Caretta A., Bua L., Bagatin R., Franchi E., Petruzzelli G., Ferro S., *Enhancements in Phytoremediation Technology: Environmental Assessment of Different Biomass Disposal Solutions in Comparison with a Consolidated Approach*, Journal of Environmental Management (2019), 237:560-568. https://doi.org/10.1016/j.jenvman.2019.02.104 [66]
8. Vocciante M.*, Finocchi A., De Folly D'Auris A., Conte A., Tonziello J., Pola A., Reverberi A., *Enhanced oil spill remediation by adsorption with interlinked multilayered graphene*, Materials (2019), 12(14):2231. https://doi.org/10.3390/ma12142231 [33]

I contributi dal 4 all'8 riguardano l'indagine tecnica, economica e di sostenibilità ambientale (con metodologie "LCA-based") di numerose tecnologie (sia consolidate che in fase di sviluppo presso Eni S.p.A.) per la bonifica di acque e suoli contaminati. Molte di queste informazioni sono finalizzate allo sviluppo di uno strumento decisionale (ReTeST) che raccoglie tutte le caratteristiche di queste tecnologie e permette di selezionare l'approccio ottimale alla bonifica attraverso uno specifico algoritmo di ottimizzazione multi-obiettivo.

9. Reverberi A.P.*, Vocciante M., Salerno M., Ferretti M., Fabiano B., *Green Synthesis of Silver nanoparticles by low-energy wet bead milling of metal spheres,* Materials (2020), 13(1):63. https://doi.org/10.3390/ma13010063 [20]
10. Trofa M., D'Avino G., Fabiano B., Vocciante M.*, *Nanoparticles Synthesis in Wet-Operating Stirred Media: Investigation on the Grinding Efficiency*, Materials (2020), 13(19):4281. https://doi.org/10.3390/ma13194281 [12]

Le pubblicazioni 9 e 10 riguardano lo sviluppo di strategie per la sintesi sostenibile di nanoparticelle (NPs) con metodi economici ed ecosostenibili, anche in vista di possibili applicazioni nel campo della protezione ambientale. In particolare, è in fase di studio un innovativo approccio sperimentale accoppiato bottom-up / top-down di recente sviluppo, in cui NPs di vario tipo (da elementi metallici zero-valenti a composti metallici e non metallici) possono essere prodotte in modo sicuro con tecniche chimiche umide, mantenendo bassi costi ed elevata sostenibilità ambientale.

L'elenco completo delle pubblicazioni (*Appendix B*) è disponibile su Scopus (Author Identifier: 55967170900).
Ulteriori informazioni sulla mia attività di ricerca sono disponibili su ResearchGate all'indirizzo:
https://www.researchgate.net/profile/Marco_Vocciante

Appendix B: Elenco dettagliato delle pubblicazioni

· Publication List (Book Chapters)

2021 — 2. Vocciante M.*, Ferro S., *Electrokinetic remediation of soil polluted with inorganic ionic species.* In *Electrochemically assisted remediation of contaminated soils: Fundamentals, technologies, combined processes and pre-pilot and scale-up applications*, edited by M.A. Rodrigo and E.V. dos Santos, Springer (2021). ISBN: 978-3-030-68140-1. https://doi.org/10.1007/978-3-030-68140-1

2020 — 1. Dos Santos E.V.*, Ferro S., Vocciante M. *Electrokinetic Remediation*. In *The Handbook of Environmental Remediation*, Royal Society of Chemistry (2020), pp. 121-144. ISBN: 978-1-78801-380-2. https://doi.org/10.1039/9781788016261-00121

· Publication List (on International Journals)

2024 ↓

78. Trofa M., Vocciante M.*, *Numerical Investigation of a Novel Grinding Device for the One-Pot Production of Ferromagnetic Nanoparticles*, Applied Sciences [I.F. 2.7] (2024) 14(4), 1550. https://doi.org/10.3390/app14041550
Q2 in Subject Category SCIMAGO 'Engineering (Miscellaneous)'; Q2 in Subject Category SCIMAGO 'Fluid Flow and Transfer Processes'; Q2 in Subject Category SCIMAGO 'Materials Sciences (Miscellaneous)'; Q3 in Subject Category SCIMAGO 'Computer Science Application'; Q3 in Subject Category SCIMAGO 'Process Chemistry and Technology'

77. Vocciante M.*, Franchi E., Fusini D., Pedron F., Barbafieri M., Petruzzelli G., Reverberi A.P., *Sustainable Recovery of an Agricultural Area Impacted by an Oil Spill using Enhanced Phytoremediation*, Applied Sciences [I.F. 2.7] (2024) 14(2), 582. https://doi.org/10.3390/app14020582
Q2 in Subject Category SCIMAGO 'Engineering (Miscellaneous)'; Q2 in Subject Category SCIMAGO 'Fluid Flow and Transfer Processes'; Q2 in Subject Category SCIMAGO 'Materials Sciences (Miscellaneous)'; Q3 in Subject Category SCIMAGO 'Computer Science Application'; Q3 in Subject Category SCIMAGO 'Process Chemistry and Technology'

2023 ↓

76. De Folly D'Auris A., Rubertelli F., Taini A., Vocciante M.*, *A Novel Polyurethane-based Sorbent Material for Oil Spills Management*, Journal of Environmental Chemical Engineering [I.F. 7.7] (2023) 11, 111386. https://doi.org/10.1016/j.jece.2023.111386
Q1 in Subject Category SCIMAGO 'Chemical Engineering (Miscellaneous)'; Q1 in Subject Category SCIMAGO 'Processes Chemistry and Technology'; Q1 in Subject Category SCIMAGO 'Pollution'; Q1 in Subject Category SCIMAGO 'Waste Management and Disposal'

75. Reverberi A.P.*, Soda O., Vocciante M., Salerno M., Fabiano B., *A Composite Stirring-Milling Reagentless Process for Soft Metal Micro-and Nanoparticle Production*, Chemical Engineering Transactions (2023) 100, 127-132. https://doi.org/10.3303/CET23100022
Q3 in Subject Category SCIMAGO 'Chemical Engineering (Miscellaneous)'

74. Trofa M., Reverberi A.P., Vocciante M.*, *Discrete Element Method Simulations of an Innovative Magnetic Stirred Device for the Top-down Production of Ferromagnetic Nanoparticles*, Chemical Engineering Transactions (2023) 100, 121-126. https://doi.org/10.3303/CET23100021
Q3 in Subject Category SCIMAGO 'Chemical Engineering (Miscellaneous)'

73. Petruzzelli G.*, Barbafieri M., Franchi E., Fusini D., Vocciante M., Pedron F., *Effect of Soil Aging on Cadmium Bioavailability and Bioaccessibility at a Contaminated Site*, Environments (2023) 10(6), 105. https://doi.org/10.3390/environments10060105
Q2 in Subject Category SCIMAGO 'Environmental Science (Miscellaneous)'; Q2 in Subject Category SCIMAGO 'Renewable Energy, Sustainability and The Environment'; Q2 in Subject Category SCIMAGO 'Ecology, Evolution, Behavior and Systematics'

2022 ↓

72. Pedron F., Grifoni M., Barbafieri M., Franchi E., Vocciante M., Petruzzelli G.*, *Comparative evaluation of technologies at a heavy metal contaminated site: the role of feasibility studies*, Environments (2022) *9*(11), 139. https://doi.org/10.3390/environments9110139
Q2 in Subject Category SCIMAGO 'Environmental Science (Miscellaneous)'; Q2 in Subject Category SCIMAGO 'Renewable Energy, Sustainability and The Environment'; Q2 in Subject Category SCIMAGO 'Ecology, Evolution, Behavior and Systematics'

71. Franchi E., Barbafieri M., Petruzzelli G., Ferro S., Vocciante M.*, *Improvement of Arsenic Phytoextraction using Indigenous Bacteria and Mobilizing Agents*, Applied Sciences [I.F. 2.838] (2022) 12(18), 9059. https://doi.org/10.3390/app12189059
Q2 in Subject Category SCIMAGO 'Engineering (Miscellaneous)'; Q3 in Subject Category SCIMAGO 'Fluid Flow and Transfer Processes'; Q3 in Subject Category SCIMAGO 'Materials Sciences (Miscellaneous)'; Q3 in Subject Category SCIMAGO 'Process Chemistry and Technology'

70. Reverberi A.P.*, Varbanov P.S., Salerno M., Soda O., Vocciante M., Fabiano B. *Top-down Cleaner Production of Nanoparticle Dispersions in Liquid Phase by Vibrating Granular Beds*, Chemical Engineering Transactions (2022) 94, 535-540. https://doi.org/10.3303/CET2294089
Q3 in Subject Category SCIMAGO 'Chemical Engineering (Miscellaneous)'

69. Grifoni M., Pedron F., Franchi E., Fusini D., Reverberi A.P, Vocciante M.*, *Green Remediation for the Sustainable Management of Oil Spills in Agricultural Areas,* Chemical Engineering Transactions (2022) 94, 829-834. https://doi.org/10.3303/CET2294138
Q3 in Subject Category SCIMAGO 'Chemical Engineering (Miscellaneous)'

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