

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION



Name	ROSSELLA ARLETTI
Address	UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA Dipartimento di Scienze Chimiche e Geologiche Via G. Campi 103 – 41125 Modena (Italy)
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Nationality	Italian
Date of Birth	25/08/1977
Gender	Female

WORK EXPERIENCE

- 1/09/2019 **ASSOCIATE PROFESSOR**
Università degli Studi di Modena e Reggio Emilia
 - Research activity on: ceramic material, recycle of hazardous and non-hazardous waste in the ceramic production, porous materials for the recovery of REE, hybrid advanced materials for drug carrying.

- 1/10/2015-31/08/2019 **ASSOCIATE PROFESSOR**
Università degli Studi di Torino
 - Research activity on advanced materials, porous materials, hybrid materials for engineering and energetic applications. CO₂ capture and storage. Characterization of materials.

- 14/12/2010-30/09/2015 **RESEARCHER**
Università degli Studi di Torino
 - Research activity on advanced materials, porous materials, natural and synthetic zeolites for environmental and technological application, CO₂ capture and storage, hybrid materials for energy. X-ray powder diffraction methods.

PERSONAL SKILLS AND
COMPETENCES

RA research activity is focused on realization and characterization of advanced materials. During the enrolment in University of Torino her research activity was focused on the functionalization and characterization of porous materials for innovative and technological applications (e.g. energy storage, realization of gas sensors, CO₂ capture, drug carrying). After she joined the materials group of the Department of Chemical and Geological Science of Modena and Reggio Emilia University, she started work on ceramic materials and in particular on the recovery of End of Waste for the ceramic production.

MADRELINGUA
ALTRE LINGUE

ITALIAN
ENGLISH (UNDERSTANDING =C2; SPEAKING=C2; WRITING=C2)
FRENCH (UNDERSTANDING =C2; SPEAKING=C1; WRITING=A2)

SELECTED RELEVANT FINANCED
PROJECT

HORIZON 2020 ATTRACT CASCADE GRANT 2018 (2019-2020)

SCENT. One dimensional, Single-Chain polymers for gas sENsors through high-pressure Technology. Budget: 130K€. Scientific Co-Proposer.

PRIN 2015 (MIUR) (2017- 2020)

ZAPPING. High-pressure nanoconfinement in Zeolites: the mineral science know-how APPLIED to engineerING of innovative materials for technological and environmental applications. Total Budget: 515K€. Principal Investigator.

FIRB FUTURO IN RICERCA 2012 (MIUR) (2013- 2016)

ImPACT: Impose Pressure And Change Technology.
Total Budget:674K€. Scientific Co-Proposer.

AWARDS

2014 : PREMIO "MARIO NARDELLI" OF ASSOCIAZIONE ITALIANA DI CRISTALLOGRAFIA FOR YOUNG RESEARCHERS.

2012: EMU PRIZE FOR EXCELLENT SCIENTIFIC CONTRIBUTIONS "1ST EUROPEAN MINERALOGICAL CONFERENCE ECM 2012", FRANKFURT

2008: SALVATORE IMPROTA PRIZE OF ASSOCIAZIONE ITALIANA DI ARCHEOMETRIA FOR YOUNG RESEARCHERS

COMMISSIONS OF TRUST

2021-PRESENT: MEMBER OF THE BEAM TIME ALLOCATION OF ESRF

2016 – PRES. EDITORIAL BOARD OF EUROPEAN JOURNAL OF MINERALOGY (EJM), ASSOCIATE EDITOR.

2020 – PRES. EDITORIAL BOARD OF MINERALS, ASSOCIATE EDITOR.

2021 – PRES. MEMBER OF THE COMMISSION "INSTRUMENTATION" OF ITALIAN ASSOCIATION OF CRISTALLOGRAPHY (AIC)

2015 – PRES. SCIENTIFIC EVALUATOR FOR ITALIAN VQR (VALUTAZIONE QUALITÀ RICERCA).

2016 – 2020 SCIENTIFIC ADVISORY BOARD OF ITALIAN SOCIETY OF SYNCHROTRON LIGHT (SILS).

2013 – 2017 SCIENTIFIC ADVISORY BOARD OF ITALIAN SOCIETY OF ZEOLITES (AIZ).

2016 SCIENTIFIC EVALUATOR FOR NATIONAL SCIENCE CENTRE (NARODOWE CENTRUM NAUKI), KRAKÓW

2015 SCIENTIFIC EVALUATOR FOR SWISS NATIONAL SCIENCE FOUNDATION (SNSF), BERN

PUBLICATIONS

Selected publication of last 2 years.

TOTAL NUMBER OF PUBLICATIONS IN PERR REVIEW JOURNALS =98 (SCOPUS 31/03/22)

TOTAL NUMBER OF CITATIONS = 1564 (SCOPUS 31/03/22)

H-INDEX = 21 (SCOPUS 31/03/22)

CONTE, S., BUONAMICO, D., MAGNI, T., ARLETTI, R., DONDI, M., GUARINI, G., ZANELLI, C. (2022) RECYCLING OF BOTTOM ASH FROM BIOMASS COMBUSTION IN PORCELAIN STONEWARE TILES: EFFECTS ON TECHNOLOGICAL PROPERTIES, PHASE EVOLUTION AND MICROSTRUCTURE (IN PRESS JOURNAL OF EUROPEAN CERAMIC SOCIETY)

ARLETTI, R., CONTE, S., ZANELLI, C., DE IULIIS, M., DI GIUSEPPE, D., SCOGNAMIGLIO, V., MALFERRARI, D., DONDI, M., GUALTIERI, A. (2022) RECYCLING THE PRODUCT OF THERMAL INERTIZATION OF MAN-MADE VITREOUS FIBRES (MMVF) FOR THE MANUFACTURE OF STONEWARE SLABS (IN SUBMISSION TO JOURNAL OF CLEANER PRODUCTION)

FABBIANI, M., MORSLI, A., CONFALONIERI, G., CACCIAGUERRA, T., FAJULA, F., HAINES, J., BENGUEDDACH, A., ARLETTI, R., DI RENZO, F. (2022) ON THE CHEMICAL CONDENSATION OF THE LAYERS OF ZEOLITE PRECURSOR MCM-22(P), MICROPOROUS AND MESOPOROUS MATERIALS, 111678

BARRERA, G., ALLIA, P., TIBERTO, P., TAMMARO, O., PANSINI, M., MAROCCO, A., MANZOLI, M., CONFALONIERI, G., ARLETTI, R., ESPOSITO, S. (2022) MAGNETIC CLUSTERING OF WEAKLY INTERACTING NI-IONS IN NI-EXCHANGED ZEOLITES, MICROPOROUS AND MESOPOROUS MATERIAL, 335, 2022, 111786.

FABBIANI, M., CONFALONIERI, G., MORANDI, S., ARLETTI, R.*, QUARTIERI, S., SANTORO, M., DI RENZO, F., HAINES, J., FANTINI, R., TABACCHI, G., FOIS, E., VEZZALINI, G., RICCHIARDI, G., MARTRA, G. (2021) STEERING POLYMER GROWTH BY MOLDING NANOCHANNELS: 1,5-HEXADIENE POLYMERIZATION IN HIGH SILICA MORDENITE. MICROPOROUS AND MESOPOROUS MATERIALS, 311,110728.

ALABARSE, F., POLISI, M., FABBIANI, M., QUARTIERI, S., ARLETTI, R., JOSEPH, B., CAPITANI, F., CONTRERAS, S., KONCZEWICZ, L, M ROQUETTE, J., ALONSO, B., DI RENZO, F., ZAMBOTTI, G., BAU, M., FERRARI, M., FERRARI, V., PONZONI, S., SANTORO, M., HAINES, J. HIGH PRESSURE SYNTHESIS AND GAS SENSING TESTS OF 1-D POLYMER/ALUMINOPHOSPHATE NANOCOMPOSITES, ACS APPLIED MATERIALS & INTERFACES, 27237

MANZOLI, M., TAMMARO, O., MAROCCO, A. BONELLI, B., BARRERA, G., TIBERTO, P., ALLIA, P.; MATÉO-VÉLEZ, J.-C.; ROGGERO, A.; DANTRAS, E.; ARLETTI, R.; PANSINI, M.; ESPOSITO, S. (2021): NEW INSIGHT IN THE PRODUCTION OF SIMULATED MOON AGGLUTINATES: THE USE OF NATURAL ZEOLITES BEARING ROCKS, ACS EARTH AND SPACE CHEMISTRY, 5, 1631 – 1646.

POLISI, M., FABBIANI, M., VEZZALINI, G., DI RENZO, F., PASTERO, L., QUARTIERI, S., ARLETTI, R. (2021): AMINO ACID ENCAPSULATION IN ZEOLITE MOR: EFFECT OF SPATIAL CONFINEMENT, PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 23, 20541 – 20552.

FANTINI, R., VEZZALINI, G., ZAMBON, A., FERRARI, E., DI REZNO, F., FABBIANI, M., ARLETTI, R. (2021) BOOSTING SUNSCREEN STABILITY: NEW HYBRID MATERIALS FROM UV FILTERS ENCAPSULATION, MICROPOROUS AND MESOPOROUS MATERIALS 328 (2021) 11147.

BARRERA, G., ALLIA, P., BONELLI, B., ESPOSITO, S., FREYRIA, F.S., PANSINI, M., MAROCCO, A., CONFALONIERI, G., ARLETTI, R., TIBERTO, P. (2020): MAGNETIC BEHAVIOR OF Ni NANOPARTICLES AND Ni²⁺ IONS IN WEAKLY LOADED ZEOLITIC STRUCTURES. JOURNAL OF ALLOYS AND COMPOUNDS, 817, 152776.

DAVARPANAH, E., ARMANDI, M., HERNÁNDEZ, S., PIUMETTI, M., ARLETTI, R., BENSALD, S., FINO, D. (2020): CO₂ CAPTURE ON NATURAL ZEOLITE CLINOPTILOLITE: EFFECT OF TEMPERATURE AND ROLE OF THE ADSORPTION SITES. JOURNAL OF ENVIRONMENTAL MANAGEMENT, 275, 111229.

POLISI, M., VEZZALINI, G., BONACCORSI, E., BIAGIONI, C., ARLETTI, R. (2020): HIGH PRESSURE BEHAVIOUR OF TOBERMORITE SUPERGROUP MINERALS: AN IN SITU SYNCHROTRON X-RAY POWDER DIFFRACTION STUDY. CEMENT AND CONCRETE RESEARCH, 138, 106249.

PATENTS

ITALIAN PATENT 102021000005132 "MATERIALE FOTOASSORBENTE AD AMPIO SPETTRO, PROCEDIMENTO PER LA SUA PREPARAZIONE ED USI RELATIVI" INVENTORS, R. ARLETTI, G. VEZZALINI, A. ZAMBON, E. FERRARI, R. FANTINI, C. BARALDI, L. MINO, M. FABBIANI, R. CAVALLI, M. ARGENZIATO, DEPOSIT DATE (04/03/21).

MODENA 31/03/2022

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV