

**EUROPEAN
CURRICULUM
VITAE FORMAT**



PERSONAL INFORMATION

Name Antonio Arcadi

Address Università degli Studi dell'Aquila, DISIM, via Vetoio-COPPITO 2, 67100, L'Aquila (IT)

Telephone + 39 0862 433774 mobile + 39 340 670 1207

SCOPUS links 7007005514

E-mail Antonio.arcadi@univaq.it

Nationality ITALIAN

Date of Birth 11-09-1954

Gender MALE **ORCID:** <https://orcid.org/0000-0001-9053-648X> **Codice Fscale:** RCDNTN54P11I955V

PUBLICATIONS Total number of publications in peer-review journals: 183
Total number of citations: 8705 (Scopus) 9197 (Google Scholar)
H index 48 (Scopus) 46 (Google Scholar)

FIELD OF INTEREST

Synthesis of heterocyclic compounds of medicinal chemistry interest; domino reactions as useful tools of "Green Chemistry"; coinage metals catalysis; product selectivity control in sequential one-pot reactions.

WORK EXPERIENCE

1979-1983 Teaching Fellowship at the Institute of Chemistry of the University of L'Aquila Master of Biological Sciences: Organic Chemistry.

1983-1985 Assistant Professor at the Institute of Chemistry of the University of L'Aquila.

1985-1991 Assistant Professor at the Department of Chemistry, Chemical Engineering and Materials of the University of L'Aquila.

1991-1992 Associate Professor of Organic Chemistry, University of Urbino (Italy), Master of Science Course: Organic Chemistry.

1992-2002 Associate Professor of Organic Chemistry at the Department of Chemistry, Chemical Engineering and Materials of the University of L'Aquila, Master Science Courses: Organic Chemistry, Advanced Organic Chemistry, Chemistry of Heterocyclic Compounds, Medicinal Chemistry, Atmospheric Chemistry.

Since 2002 Full Professor of Organic Chemistry at the University of L'Aquila.

EDUCATION AND TRAINING

1973-1978 Studies in Medicinal Chemistry and Technology at the University "La Sapienza" - Rome

1978 Laurea degree cum laude in Medicinal Chemistry and Technology at the University "La Sapienza" - Rome

**PERSONAL SKILLS
AND COPETENCES**

MOTHER TONGUE ITALIAN

OTHER LAGUAGES ENGLISH

**SCIENTIFIC SKILLS
AND COMPETECES**

Expertise in a) the synthesis, identification and purification of organic compounds; b) chromatographic methods: GC,

GC-MS, HPLC c) NMR analysis.

RELEVANT ROLES AND COMPETENCES

Coordination and administration of people, projects and budgets.

2008-2012 Chairman of the Department of Chemistry, Chemical Engineering and Materials of the University of L'Aquila.

2013-2018 Member of the Academic Senate of the University of L'Aquila.

2000-ongoing Member of the Italian Chemical Society, the International Society of Heterocyclic Chemistry and the American Chemical Society.

Reviewer for ANR (French National Research Agency) and NFS (National Science Foundation).

Contact Person for Erasmus Mobility toward "UNIVERSITE COTE D'AZUR NICE" and "ECOLE NATIONALE SUPERIEURE DE CHIMIE PARIS TECH".

RELEVANT PUBLICATIONS

Synthesis of Indole/Benzofuran-Containing Diarylmethanes through Palladium-Catalyzed Reaction of Indolylmethyl or Benzofuranylmethyl Acetates with Boronic Acids. Antonio Arcadi, Andrea Calcaterra, Marco Chiarini, Giancarlo Fabrizi, Andrea Fochetti, Antonella Goggiamani, Antonia Iazzetti, Federico Marrone, Vincenzo Marsicano, Andrea Serraiocco, *Synthesis* **2022**, 54, 741-753.

Design, synthesis and biological evaluation of new thiazole scaffolds as potential TRPM8 antagonists. Vincenzo Marsicano, Antonio Arcadi, Gianluca Bianchini, Mara Tomassetti, Andrea Aramini *Bioorg. Med. Chem. Lett.* **2021**, 52, 128392.

Sequential condensation/biannulation reactions of β -(2-aminophenyl)- α,β -ynones with 1,3-dicarbonyls. Vincenzo Marsicano, Antonio Arcadi, Marco Chiarini, Giancarlo Fabrizi, Antonella Goggiamani and Antonia Iazzetti. *Org. Biomol. Chem.* **2021**, 19, 5177-5190.

Synthesis of Polycyclic Chromene Cores through Gold (I)-Catalyzed Intramolecular Hydroarylation Reaction (IMHA). Antonio Arcadi, Giancarlo Fabrizi, Andrea Fochetti, Roberta Franzini, Francesca Ghirga, Antonella Goggiamani, Antonia Iazzetti, Federico Marrone, and Andrea Serraiocco, *Eur. J. Org. Chem.* **2021**, 1676-1687.

Synthesis of functionalised 2,3-dihydroquinolin-4(1H)-ones vs. quinoline or N-alkenylindole derivatives through sequential reactions of 2-alkynylanilines with ketones. Vincenzo Marsicano, Antonio Arcadi, Marco Chiarini, Giancarlo Fabrizi, Antonella Goggiamani, and Antonia Iazzetti, *Org. Biomol. Chem.* **2021**, 19, 421- 438.

Experimental and computational evidence on gold-catalyzed regioselective hydration of phthalimido-protected propargylamines: an entry to β -amino ketones. Vincenzo Marsicano, Antonio Arcadi, Massimiliano Aschi and Véronique Michelet, *Org. Biomol. Chem.* **2020**, 18, 9438-9447.

Synthesis of Pyrano[2,3-*f*]chromen-2-ones vs. Pyrano[3,2-*g*]chromen-2-ones through Site Controlled Gold-Catalyzed Annulations. A. Arcadi, A. Ciogli, G. Fabrizi, A. Fochetti, R. Franzini, F. Ghirga, A. Goggiamani, A. Iazzetti, *Org. Biomol. Chem.* **2019**, 17, 10065-10072.

Synthesis of Polycyclic Quinolines by Means of Brønsted Acid Mediated Reaction of β -(2-Aminophenyl)- α,β -Ynones with Ketones. V. Marsicano, M. Chiarini, F. Marinelli, A. Arcadi, *Adv. Synth. Catal.* **2019**, 361, 2365-2370.

Sequential Gold-Catalyzed Carbene Transfer/Ring Closure: Oxidative Cyclization of β -(2-Alkynylphenyl)- α,β -ynones to Indenofuranones N. Rode, F. Marinelli, A. Arcadi, T. Adak, M. Rudolph, F. Rominger, A. S. K. Hashmi, *Adv. Synth. Catal.* **2018**, 360, 4790-4794.

Reaction of β -(2-aminophenyl)- α,β -Ynones with Tosyl Isocyanate: Experimental and Computational Investigations. N.

D. Rode, M. Aschi, M. Chiarini, L. Del Vecchio, F. Marinelli, A. Arcadi, *Adv. Synth. Catal.* **2018**, 360, 3672-3676.

Gold-Catalyzed Cascade Reaction of β -(2-Aminophenyl)- α,β -ynones with Ynamides: A Sequential Route to Polysubstituted 2-Aminoquinolines. N. D. Rode, A. Arcadi, A. Di Nicola, F. Marinelli, V. Michelet, *Org. Lett.* **2018**, 20, 5103-5106.

Synthesis of 2-Acylindoles via Ag- and Cu-Catalyzed anti-MichaelHydroamination of β -(2-Aminophenyl)- α,β -ynones: Experimental Results and DFT Calculations. N. D. Rode, I. Abdalghani, A. Arcadi, M. Aschi, M. Chiarini, F. Marinelli, *J. Org. Chem.* **2018**, 83, 6354-6362.

Gold-Catalyzed Synthesis of Dibenzo[1,5]diazocines from β -(2-Aminophenyl)- α,β -ynones. N. D. Rode, A. Arcadi, M. Chiarini, F. Marinelli, G. Portalone, *Adv.Synth. Catal.* **2017**, 359, 3371 -3377.

Silver versus gold-catalyzed sequential oxidative cyclizations of unprotected 2-alkynylanilines with oxone. A. Arcadi, M. Chiarini, L. Del Vecchio, F. Marinelli and V. Michelet, *Chem. Commun.* **2016**, 52, 1458-1461.

Pd- and Rh-Catalyzed Hydroarylation of γ -(2-Methoxycarbonylphenyl)propargylic Alcohols: Approaches to 4- or 5-Substituted Seven-Membered Benzolactones and 3,3- Disubstituted Phthalides. A. Arcadi, G. Fabrizi, A. Goggiamani, F. Marinelli, *J. Org. Chem.***2015**, 80, 6986-6995.

Brønsted Acid Catalyzed Cascade Reactions of 2[(2Aminophenyl)ethynyl]phenylamine Derivatives with Aldehydes: A New Approach to the Synthesis of 2,2-Disubstituted 1H,1H3,3Biindoles. A. Arcadi, M. Chiarini, G. D'Anniballe, F. Marinelli, E. Pietropaolo, *Org. Lett.* **2014**, 16, 1736-1739.

One-Pot Gold-Catalyzed Amino-fluorination of Unprotected 2-Alkynylanilines. A. Arcadi, E. Pietropaolo, A. Alvino, and V. Michelet, *Org. Lett.* **2013**, 15, 2766-2769.

Palladium-Catalyzed Cascade Reactions of 1-(3-Arylprop-2-ynoxy)-2-bromo Benzene Derivatives with Organoboron Compounds. A. Arcadi, F. Blesi, S. Cacchi, G. Fabrizi, A. Goggiamani, F. Marinelli, *J. Org. Chem.* **2013**, 78, 4490-4498.

2-Substituted 3-Arylindoles Through Palladium-Catalyzed Arylative Cyclization of 2-Alkynyltrifluoroacetanilides with Arylboronic Acids under Oxidative Conditions. A. Arcadi, S. Cacchi, G. Fabrizi, A. Goggiamani, A. Iazzetti, F. Marinelli, *Org. Biomol. Chem.*, **2013**, 11, 545-548.

An alternative one-pot gold-catalyzed approach to the assembly of 11H-indolo-[3,2-c]quinolines. G. Abbiati, A. Arcadi, M. Chiarini, F. Marinelli, E. Pietropaolo, E. Rossi, *Org. Biomol. Chem.*, **2012**, 10, 7801-7808.

Gold versus Silver Catalyzed Intramolecular Hydroarylation Reactions of [(3-Arylprop-2-ynyl)oxy]benzene Derivatives. A. Arcadi, F. Blesi, S.Cacchi, G. Fabrizi, A. Goggiamani, F. Marinelli, *Org. Biomol. Chem.*, **2012**, 10, 9700-9708.

Silver catalysed intramolecular cyclisation of 2-alkynylacetophenones and 3-acetyl-2-alkynylpyridines in the presence of ammonia. M. Dell'Acqua, G. Abbiati, A. Arcadi, E. Rossi, *Org. Biomol. Chem.* **2011**, 9, 7836-7848.

Product Selectivity Control in the Heteroannulation of o-(1-Alkynyl)benzamides. G. Bianchi, M. Chiarini, F. Marinelli, L. Rossi, Antonio Arcadi, *Adv. Synth. Catal.* **2010**, 352, 136-142.

Rhodium- and Palladium-Catalyzed Hydroarylation of Propargylic Amines with Arylboronic Acids. A. Arcadi, M. Aschi, M. Chiarini, G. Ferrara, F. Marinelli, *Adv. Synth. Catal.* **2010**, 352, 493-498.

Alternative Synthetic Methods through New Developments in Catalysis by Gold. A. Arcadi, *Chem. Rev.* **2008**, 108, 3266-3325.

RELEVANT GRANTS

Coordinator of the research activities of the Project” DEVELOPMENT OF SUSTAINABLE APPROACHES OF NITROGEN CONTAINING HETEROCYCLIC DERIVATIVES” (Galileo Program G15-69/2015) supported by the Università Italo Francese and the Ministère des affaires étrangères et du développement international.

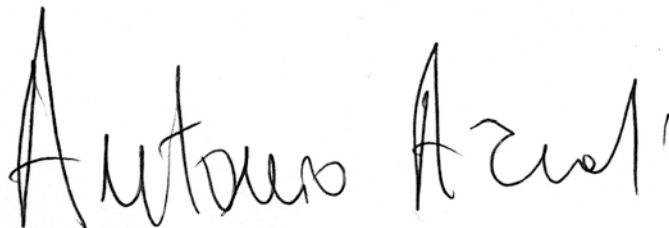
Grant No. 28497/2006 from the Consorzio di Ricerca per l’Innovazione Tecnologica, la Qualità e la Sicurezza degli Alimenti S.C.R.L.

National coordinator of the research activities of the Project "INNOVATIVE SYNTHETIC METHODOLOGIES OF HETEROCYCLIC COMPOUNDS THROUGH TRANSITION METALS CATALYZED REACTIONS" which obtained financial support by Ministero dell'Università e della Ricerca Scientifica- Rome/ITALY (MIUR) in the 2003 COFIN.

Local unit coordinator of the Programme FIRB: RBAU01FEPP_002 (MIUR).

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.

L'Aquila 10-05-2022

A handwritten signature in black ink, reading "Antonio Azzi". The signature is written in a cursive style with a large initial 'A' and a distinct 'Z'.