





PERSONAL INFORMATION

MAJA MOLNAR



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 maja.molnar@ptfos.hr

Gender female | Birth date 06/06/1980 | Nationality croatian

WORKING EXPERIENCE

- 2015/2018/2019 Agency for science and higher education (higher institution reaccreditation panel member)
- (ac.year 2015./2016.) Analytical chemistry (lectures)
Department of biology Osijek
Josip Juraj Strossmayer University in Osijek
- (ac.year 2014./2015.-) General chemistry 2 (lectures); General and inorganic chemistry (calculations)
Department of biology Osijek
Josip Juraj Strossmayer University in Osijek
- (ac. year 2012./2013.-) General and inorganic chemistry - calculations
Department of biology Osijek
Josip Juraj Strossmayer University in Osijek
- (from ac.year 2010./2011. -) General and analytical chemistry
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (27.02.2018. -) Assistant professor - biotechnical sciences
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (22.09.2017. -) Higher research associate - biotechnical sciences
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (21.12.2012. – 27.02.2018.) Assistant professor - biotechnical sciences
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (04.05.2012. – 22.09.2017.) Research associate - biotechnical sciences
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (21.01.2012. – 21.12.2012.) Senior assistant – biotechnical sciences
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (01.10. 2007. - 21.01.2012.) assistant
Faculty of food technology Osijek
Subdepartment for chemistry and ecology
- (01. 04. 2007. – 01.10. 2007.) Food technologist/management representative in quality assurance
Tribo-min d.o.o. Osijek
Production of dietetic and mineral products

EDUCATION

- (2014.) **E-learning academy**
CARNet, course design
- (2012.) **Pedagogical-psychological and didactic-methodological training**
Josip Juraj University Osijek, Faculty of Teacher Education in Osijek
- (08. 12. 2011.) **PhD**
Josip Juraj University in Osijek, Faculty of food technology Osijek
Biotechnical sciences; food technology
- (01. 03. 2011. – 01. 06. 2011.) **Universität für Bodenkultur Wien**
University of Natural Resources and Life Sciences, Department of Chemistry, Division of Organic Chemistry, Chair for Wood, Pulp and Fiber Chemistry, Vienna, Austria
- (01. 09. 2008.-01. 03. 2009.) **Graz University**
Chemistry department, Christian Doppler Laboratory for Microwave Chemistry, Graz, Austria
- (20. 05. 2005.) **Dipl. ing. Of food technology and process engineering**
Josip Juraj University in Osijek, Faculty of food technology Osijek

PERSONAL SKILLS

Maternal language croatian

Other languages

	UNDERSTANDING		SPEEKING		WRITING
	listening	reading	interaction	production	
english	C1/2	C1/2	C1/2	C1/2	C1/2
italian	A1/2	A1/2	A1/2	A1/2	A1/2
spanish	A1/2	A1/2	A1/2	A1/2	A1/2

Grades A1/2: beginner - B1/2: intermediate - C1/2 excellent

Drivers licence B

ADDITIONAL INFORMATION

Memberships Croatian chemical society since 2011. g.

Projects

Project leader

- **HRZZ Installation project** – *Green technologies in synthesis of heterocyclic compounds (01.01.2018.-31.12.2022.)*
- **Osijek Baranja County** – *Potential application of coumarins as fungicides (2017-2018)*
- **NEWFELPRO** - *Synthesis and characterization of some chalcone based heterocyclic compounds and their biological screening as potential in-vitro antioxidant agents- (mentor on Croatian side) (09.05.2016.-08.05.2017.)*
- **UNIOS** - *synthesis and biological activity of dipicolinic acid derivatives (2013-2014)*

Project participation

Bilateral project Croatia Serbia - *Application of high pressure technologies in the extraction of plant material (2016-2018)*

Publication list (<https://bib.irb.hr/lista-radova?autor=299335>)

Scientific papers

Jokić, Stela; Molnar, Maja; Jakovljević, Martina; Aladić, Krunoslav; Jerković, Igor. Optimization of supercritical CO₂ extraction of *Salvia officinalis* L. leaves targeted on oxygenated monoterpenes, α - humulene, viridiflorol and manool. *Journal of supercritical fluids*. 133 (2018), 1; 253-262.

Molnar, Maja; Amić, Ana; Pavić, Valentina; Kovač, Tihomir; Kovač, Marija; Has-Schön, Elizabeta. Biological study on novel coumarinyl 1, 3, 4- oxadiazoles. *Turkish journal of chemistry*. 42 (2018); 146-157.

Molnar, Maja; Brahmabhatt, Harshad; Rastija, Vesna; Pavić, Valentina; Komar, Mario; Karnaš, Maja; Babić, Jurislav. Environmentally Friendly Approach to Knoevenagel Condensation of Rhodanine in Choline Chloride: Urea Deep Eutectic Solvent and QSAR Studies on Their Antioxidant Activity. *Molecules*. 23 (2018), 8; 1897-1912.

Molnar, Maja; Jakovljević, Martina; Jokić, Stela. Optimization of the process conditions for the extraction of rutin from *Ruta graveolens* L. by choline chloride based deep eutectic solvents. *Solvent Extraction Research and Development, Japan*. 25 (2018), 2; 109-116.

Rastija, Vesna; Molnar, Maja; Siladi, Tena; Masand, Vijay Hariram. QSAR analysis for antioxidant activity of dipicolinic acid derivatives. *Combinatorial chemistry & high throughput screening*. 21 (2018), 3; 204-214.

Amić, Ana; Molnar, Maja. An improved and efficient n-acetylation of amines using choline chloride based deep eutectic solvents. *Organic preparations and procedures international*. 49 (2017) ; 249-257.

Jerković, Igor; Molnar, Maja; Vidović, Senka; Vladić, Jelena; Jokić, Stela. Supercritical CO₂ Extraction of *Lavandula angustifolia* Mill. flowers: Optimization of Oxygenated Monoterpenes, Coumarin and Herniarin Content. *Phytochemical analysis*. 28 (2017), 6; 558-566.

Molnar, Maja; Jerković, Igor; Suknović, Dragica; Bilić Rajs, Blanko; Aladić, Krunoslav; Šubarić, Drago; Jokić, Stela. Screening of Six Medicinal Plant Extracts Obtained by Two Conventional Methods and Supercritical CO₂ Extraction Targeted on Coumarin Content, 2, 2-Diphenyl-1-picrylhydrazyl Radical Scavenging Capacity and Total Phenols Content. *Molecules*. 22 (2017) , 3; 348.

Molnar, Maja; Klenkar, Jelena; Tarnai, Tena. Eco-friendly rapid synthesis of 3-substituted- 2- thioxo-2,3-dihydroquinazolin-4(1H)-ones in choline chloride based deep eutectic solvent. *Synthetic communications*. 47 (2017) ; 1040-1045.

Molnar, Maja; Pavić, Valentina; Šarkanj, Bojan; Čačić, Milan; Vuković, D.; Klenkar, Jelena. Mono- and bis-dipicolinic acid heterocyclic derivatives – thiosemicarbazides, triazoles, oxadiazoles and thiazolidinones as antifungal and antioxidant agents. // *Heterocyclic communications*. 23 (2017) , 1; 35-42.

Jokić, Stela; Bijuk, Marco; Aladić, Krunoslav; Bilić, Mate; Molnar, Maja.

Optimization of supercritical CO₂ extraction of grape seed oil using response surface methodology. // International journal of food science & technology. 51 (2016) , 2; 403-410 (članak, znanstveni). URL link to work URL link to work

Jokić, Stela; Rajić, Marina; Bilić, Blanka; Molnar, Maja. Supercritical extraction of scopoletin from *Helichrysum italicum* (Roth) G. Don flowers. *Phytochemical analysis*. 27 (2016) , 5; 290-295.

Čačić, Milan; Pavić, Valentina; Molnar, Maja; Šarkanj, Bojan; Has-Schön, Elizabeta. Design and Synthesis of Some New 1,3,4- Thiadiazines with Coumarin Moieties and Their Antioxidative and Antifungal Activity. *Molecules*. 19 (2014) , 1; 1163-1177.

Tišma, Marina; Molnar, Maja; Škarica, Marija; Čačić, Milan; Zelić, Bruno. Laccase Inhibiting Activity of Some Coumarin Derivatives. *Letters in organic chemistry*. 11 (2014) , 8; 583-589.

Šarkanj, Bojan; Molnar, Maja; Čačić, Milan; Gille, Lars. 4-Methyl-7-hydroxycoumarin antifungal and antioxidant activity enhancement by substitution with thiosemicarbazide and thiazolidinone moieties. // *Food chemistry*. 139 (2013) , 1/4; 488-495.

Molnar, Maja; Čačić, Milan; Zec Zrinušić, Sanja. Synthesis and Antioxidant Evaluati on of Schiff Bases Derived from 2, 6-Pyridinedicarboxylic Acid. *Letters in organic chemistry*. 9 (2012) , 6; 401-410.

Čačić, Milan; Molnar, Maja. Design, Synthesis and Characterization of Some Novel 3-Coumarinyl- 5-aryliden-1, 3-thiazolidine-2, 4-diones and Their Antioxidant Activity. *Zeitschrift für Naturforschung. B, A journal of chemical sciences*. 66b (2011) , 1; 177-183.

Čačić, Milan; Molnar, Maja; Strelec, Ivica. Synthesis and biological evaluation of a novel series of 1, 3-dicoumarinyl-5-aryl-2-pyrazolines. *Heterocycles*. 83 (2011) , 7; 1553-1566.

Čačić, Milan; Molnar, Maja; Šarkanj, Bojan; Has-Schön, Elizabeta; Rajković, Valentina. Synthesis and Antioxidant Activity of Some New Coumarinyl- 1, 3-Thiazolidine-4-ones. *Molecules*. 15 (2010) , 10; 6795-6809.

Baghbanzadeh, Mostafa; Molnar, Maja; Damm, Markus; Reidlinger, Claudia; Dabiri, Minoo; Kappe, C. Oliver. Parallel Microwave Synthesis of 2-Styrylquinazolin-4(3H)-ones in a High-Throughput Platform Using HPLC/GC Vials as Reaction Vessels. *Journal of combinatorial chemistry*. 11 (2009) , 4; 676-684.

Čačić, Milan; Molnar, Maja; Balić, Tomislav; Draca, Nela; Rajković, Valentina. Design and Synthesis of Some Thiazolidin-4-ones Based on (7-Hydroxy-2-oxo-2H-chromen-4-yl) Acetic Acid. *Molecules*. 14 (2009) , 7; 2501-2513.

Other papers

Brahmbhatt, Harshad; Molnar, Maja; Pavić, Valentina. Pyrazole nucleus fused tri-substituted imidazole derivatives as antioxidant and antibacterial agents. *Karbala International Journal of Modern Science*. 4 (2018); 200-206.

Molnar, Maja; Tomić, Marinko; Pavić, Valentina. Coumarinyl thiosemicarbazides as antimicrobial agents. *Pharmaceutical Chemistry Journal*. 51 (2018), 12; 1078-1081.

Banjari, Ines; Misir, Andreja; Šavikin, Katarina; Jokić, Stela; Molnar, Maja; De Zoysa, HKS; Waisundara; Viduranga Y. Anti-Diabetic Effects of *Aronia melanocarpa* and its Other Therapeutic Properties. *Frontiers in Nutrition*. 4 (2017), 6.

Kovač, Tihomir; Kovač, Marija; Strelec, Ivica; Nevistić, Ante; Molnar, Maja. Antifungal and antiaflatoxigenic activities of coumarinyl thiosemicarbazides against *Aspergillus flavus* NRRL 3251. *Arhiv za higijenu rada i toksikologiju*. 68 (2017) ; 9-15.

Strelec, Ivica; Burić, Petar; Janković, Irena; Kovač, Tihomir; Molnar, Maja. Inhibitory effect of coumarin derivatives on apple (cv. Idared) polyphenol oxidase. *Croatian Journal of Food Science and Technology*. 9 (2017); 57-65.

Molnar, Maja; Kovač, Tihomir; Strelec, Ivica. Umbelliferone-Thiazolidinedione Hybrids as Potent Mushroom Tyrosinase Inhibitors. // *International Journal of Pharmaceutical Research and Allied Sciences*. 5 (2016) , 2; 305-310.

Rajić, Marina; Molnar, Maja; Bilić, Mate; Jokić, Stela. The impact of extraction methods on the isolation of pharmacologically active compounds from *Vitex agnus-castus* - a review. *International Journal of Pharmaceutical Research and Allied Sciences*. 5 (2016) , 4; 15-21.

Klenkar, Jelena; Molnar, Maja. Natural and synthetic coumarins as potential anticancer agents. *Journal of Chemical and Pharmaceutical Research*. 7 (2015), 7; 1223-1238.

Molnar, Maja; Šarkanj, Bojan; Čačić, Milan; Gille, Lars; Strelec, Ivica. Antioxidant properties and growth-inhibitory activity of coumarin Schiff bases against common foodborne fungi. *Der Pharma Chemica*. 6 (2014) , 6; 313-320.

Molnar, Maja; Čačić, Milan. Antioxidant activity of some (7-hydroxy-2-oxo-2H-chromen-4-yl)acetic acid derivatives. *Croatian Journal of Food Science and Technology*. 4 (2012), 1; 54-63.

Molnar, Maja; Čačić, Milan. Biološka aktivnost derivata kumarina – pregledni rad. *Croatian journal of food science and technology*. 3 (2011), 2; 55-64.