

PERSONAL INFORMATION Ivica Strelec



- Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology Osijek, Franje Kuhača 18, 31000 Osijek, Croatia 9
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- http://www.ptfos.unios.hr/index.php/nastavno-osoblje/prof-dr-sc-ivica-strelec
- Sex M | Date of birth 29/12/1972 | Nationality Croatian

SCIENTIFIC FIELD(S) & KEYWORDS		
(up to 3 fields and up to 10 keywords)	Field(s): biotechnology, food technology, biochemistry	
	Keywords: biochemistry, food biochemistry, enzymology, proteins and enzymes, e immobilization, protein purification, industrial food waste transformation	nzyme
RESEARCH DATABASES		
WOS	https://www.webofscience.com/wos/author/record/730763	
ORCID	https://orcid.org/0000-0003-3999-8499	
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=23029106000	
GOOGLE SCHOLAR	https://scholar.google.com/citations?user=6ZcKtt8AAAAJ&hl=en	
CROSBI/CRORIS	https://www.croris.hr/crosbi/searchByContext/2/4082	
EDUCATION		
15.11.2007.	PhD; Biotechnology	HKO 8.2, EQF 8; QF-EHEA 3 cycle
	Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia	
1110 0001	MSc; Chemistry/Biochemistry	HKO 8.1, EQF 8; QF-EHEA 2 cycle
14.10.2004.	Faculty of Science, University of Zagreb, Croatia	
03.02.1998.	MEng; Food Technology	HKO 7.1, EQF 7; QF-EHEA 2 cycle
	Faculty of Food Technology, University of Osijek, Croatia	
WORK EXPIRIENCE		
26.06.2019 onward	Full professor	
	Faculty of Food Technology, University of Osijek, Franje Kuhača 18, 31000 Osijek,	Croatia
31.10.2013. – 26.06.2019.	Science and higher education	
	Associate professor	
	Faculty of Food Technology, University of Osijek, Franje Kuhača 18, 31000 Osijek, Croatia	
	Science and higher education	
31.03.2009 30.10.2013.	Assistant professor	
	Faculty of Food Technology, University of Osijek, Franje Kuhača 18, 31000 Osijek, Croatia	
	Science and higher education	
29.01.2008. – 31.03.2009.	Senior assistant	
	Faculty of Food Technology, University of Osijek, Franje Kuhača 18, 31000 Osijek,	Croatia
	Science and higher education	



Assistant
Faculty of Food Technology, University of Osijek, Franje Kuhača 18, 31000 Osijek, Croatia
Science and higher education
Engineer - trainee
Saponia d.d. Osijek, Matije Gupca 2, 31000 Osijek, Croatia

Detergent and personal hygiene products production

THE MOST RELEVANT PEER REVIEW PUBLICATIONS IN THE LAST 5 YEARS (up to 10 publications)

> Strelec, Ivica, Katarina Peranović, Marta Ostojčić, Krunoslav Aladić, Hrvoje Pavlović, Igor Djerdj, Dalibor Tatar, Nikola Maravić, Željko Skoko, and Sandra Budžaki. **2024**. "Eggshell Waste Transformation to Calcium Chloride Anhydride as Food-Grade Additive and Eggshell Membranes as Enzyme Immobilization Carrier." *Green Processing and Synthesis* 13 (1). <u>https://doi.org/10.1515/gps-2023-0254</u>. IF (2022) = 4.3 Quartile: Q2

> Strelec, Ivica, Vladimir Mrša, Dragana Šoronja Simović, Jovana Petrović, Jana Zahorec, and Sandra Budžaki. 2024. "Biochemical and Quality Parameter Changes of Wheat Grains during One-Year Storage under Different Storage Conditions." *Sustainability* 16 (3): 1155. <u>https://doi.org/10.3390/su16031155</u>. IF (2024) = 3.9 Quartile: Q2

Brekalo, Mirna, Blanka Bilić Rajs, Krunoslav Aladić, Lidija Jakobek, Zita Šereš, Saša Krstović, Stela Jokić, Sandra Budžaki, and <u>lvica Strelec</u>. **2023**. "Multistep Extraction Transformation of Spent Coffee Grounds to the Cellulose-Based Enzyme Immobilization Carrier." *Sustainability* 15 (17): 13142. https://doi.org/10.3390/su151713142.

IF (2022) = 3.9 Quartile: Q2

Strelec, Ivica, Klara Tomičić, Marko Zajec, Marta Ostojčić, and Sandra Budžaki. 2023. "Eggshell-Waste-Derived Calcium Acetate, Calcium Hydrogen Phosphate and Corresponding Eggshell Membranes." *Applied Sciences* 13 (13): 7372. <u>https://doi.org/10.3390/app13137372</u>.

IF (2022) = 2.8 Quartile: Q2

Budžaki, Sandra, Natalija Velić, Marta Ostojčić, Marija Stjepanović, Blanka Bilić Rajs, Zita Šereš, Nikola Maravić, Jovana Stanojev, Volker Hessel, and <u>Ivica Strelec</u>. **2022**. "Waste Management in the Agri-Food Industry: The Conversion of Eggshells, Spent Coffee Grounds, and Brown Onion Skins into Carriers for Lipase Immobilization." *Foods* 11 (3): 409. <u>https://doi.org/10.3390/foods11030409</u>.

IF (2022) = 5.2 Quartile: Q1

Jakobek, Lidija, <u>Ivica Strelec</u>, Daniela Kenjerić, Lidija Šoher, Ivana Tomac, and Petra Matić. **2022**. "Simulated Gastric and Intestinal Fluid Electrolyte Solutions as an Environment for the Adsorption of Apple Polyphenols onto β -Glucan." *Molecules* 27 (19): 6683. https://doi.org/10.3390/molecules27196683.

IF (2022) = 4.6 Quartile: Q2

Lončarić, Melita, <u>Ivica Strelec</u>, Valentina Pavić, Vesna Rastija, Maja Karnaš, and Maja Molnar. **2022.** "Green Synthesis of Thiazolidine-2,4-Dione Derivatives and Their Lipoxygenase Inhibition Activity With QSAR and Molecular Docking Studies." *Frontiers in Chemistry* 10 (July). <u>https://doi.org/10.3389/fchem.2022.912822</u>.

IF (2022) = 5.5 Quartile: Q2

Šafranko, Silvija, Anamarija Stanković, Sugato Hajra, Hoe-Joon Kim, <u>Ivica Strelec</u>, Maja Dutour-Sikirić, Igor Weber, et al. **2021.** "Preparation of Multifunctional N-Doped Carbon Quantum Dots from Citrus Clementina Peel: Investigating Targeted Pharmacological Activities and the Potential Application for Fe3+ Sensing." *Pharmaceuticals* 14 (9): 857. <u>https://doi.org/10.3390/ph14090857</u>.

IF (2021) = 5.215 Quartile: Q2

Kovač, Tihomir, Ivana Borišev, Marija Kovač, Ante Lončarić, Frane Čačić Kenjerić, Aleksandar Djordjevic, <u>Ivica Strelec</u>, et al. 2020. "Impact of Fullerol C60(OH)24 Nanoparticles on the Production of Emerging Toxins by Aspergillus Flavus." Scientific Reports 10 (1): 725. <u>https://doi.org/10.1038/s41598-020-57706-</u> 3.

IF (2020) = 4.379 Quartile: Q1

Lončarić, Melita, <u>Ivica Strelec</u>, Valentina Pavić, Domagoj Šubarić, Vesna Rastija, and Maja Molnar. **2020.** "Lipoxygenase Inhibition Activity of Coumarin Derivatives—QSAR and Molecular Docking Study." *Pharmaceuticals* 13 (7): 154. <u>https://doi.org/10.3390/ph13070154</u>.

IF (2020) = 5.683 Quartile: Q1



ONGOING AND FINISHED PROJECTS Project leader Young Researchers' Career Development Project - Training New Doctoral Students Funding: Croatian Science Foundation Project duration: 12.10.2021.-11.10.2025. Transformation of Eggshell Waste to Value-Added Products Funding: Osijek-Baranja County Project duration: 22.12.2020. - 22.12.2021. Applicability of Fluorescence Spectroscopy for Honey Botanical Origin Identification Funding: Osijek-Baranja County Project duration: 1.12.2018. - 1.12.2019. Inhibition of aflatoxin synthesis by fullerenes Funding: Josip Juraj Strossmayer University of Osijek Project duration: September 2013. - September 2014. **Project researcher** Immobilization of Lipases on Functionalised Carriers Produced from Selected Agro-Food Industrial Waste Funding: Croatian Science Foundation Project duration: 18.1.2021. - 17.1.2025. Reducing Food Waste and Rescue Surplus Food Supplies - "ReS-FOOD" Funding: Co-funded by EU Project duration: 1.11.2022. - 31.10.2024. Bioconversion of lignocellulosic materials to value added feed Funding: European regional development fund (ERDF) Project duration: 20.12.2019. - 20.6.2023. Development and Implementation of the Interdisciplinary Graduate Study Programme "Biotechnology" in English Funding: European Social Fund (ESF) Project duration: 12.10.2018. - 12.10.2020. Synergistic Mixtures in Antifungal and Antimycotoxigenic Food Protection Funding: Ministry of Science Project duration: 2007. - 2013. Improvement of Quality, Shelf Life and Functionality of Wheat-Based Products Funding: Ministry of Science Project duration: 2007. - 2013. Production Promotion of Nutritive and Highly-Valuable Food Funding: Ministry of Science Project duration: 2002. - 2006. **HONORS AND AWARDS** Award for Academic Achievements Granted by Faculty of Food Technology Osijek Year: 2021 Certificate of Appreciation for the valuable contribution to the aims of ICC Granted by International Association of Cereal Science and Technology Year: 2019 Certificate of Appreciation for the successful organization of the 7th International Congress "Flour-Bread '13'

MEMBERSHIPS

2019 - onward	Function: National Deputy Delegate
Croatian Society of Biocher	mistry and Molecular Biology (HDBMB)
2000 - onward 2019 - onward	Function: Member Function: Coordinator of Osijek branch
Croatian Society of Chemic	al Engineers
2000 - onward	Function: Member
Croatian Microbiological Sc	ociety
2009 - onward	Function: Member
Global Harmonization Initia	tive
2017 - onward	Function: Member

Granted by International Association of Cereal Science and Technology

Year: 2013



ADMINISTRATIVE EXPERIENCE			
University Level			
	Committee for publishing issues		
	1.11.2018 onward	Function: Member	
Faculty Level			
	Department of Applied Chemis	stry and Ecology	
	1.10.2021 30.9.2023.	Function: Head of Department	
	Sub-department of Applied Ch	nemistry, Biochemistry and Instrumental Methods	
	1.10.2020 30.9.2021.	Function: Head of sub-department	
	Sub-department of Biochemist		
	1.10.2018 30.9.2020.	Function: Head of sub-department	
	Sub-department of Biochemist		
	1.10.2014 30.09.2016.	Function: Head of sub-department	
	Department of Applied Chemis	stry and Ecology	
	1.10.2012 30.09.2014.	Function: Head of Department	
	Committee for publishing issue	es a la construcción de la constru Es a la construcción de la construcc	
	1.10.2014 onward	Function: President	
	Committee for acknowledgem	ents	
	17.12.2013 onward	Function: President	
	Commission for postgraduate	specialist study programme Nutrition	
	28.9.2012 onward	Function: Member	
ORGANIZATIONAL EXPERIENCE (congresses, workshops, events)	International Congress of the Croatian Society of Biochemistry and Molecular Biology HDBMB22: From Science to Knowledge (Brela, Croatia) 28.9 1.10.2022. Function: Member of the Scientific Committee 1st TwiNSol-CECs Workshop: Advance multicompound analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus (Novi Sad, Serbia) 20 21.10.2022. Function: Member of the Scientific Committee 1st International Conference Food Industry By-Products (Kopački rit, Croatia) 26.6.2020. Function: Member of the Scientific and Organizing Committee 10th International Congress "Flour-Bread '19" and 12 th Croatian Congress of Cereal Technologists		
	(Osijek, Croatia) 11 14.6.2019. 9 th International Congress "Flo	Function: President of the Organizing Committee our-Bread '17" and 11 th Croatian Congress of Cereal Technologists	
	(Opatija, Croatia)	Function: President of the Organizing Committee our-Bread '13" and 9 th Croatian Congress of Cereal Technologists	
	16 8.10.2013.	Function: Member of the Organizing Committee our-Bread '11" and 8 th Croatian Congress of Cereal Technologists	
	(Opatija, Croatia)	di-Dicad 11 and 0 Orbatian Congress of Ocical Iconhologists	
	12 14.10.2011	Function: Member of the Organizing Committee	
	International Congress "Power	r of Microbes in Industry and Environment 2010" (Malinska, Croatia)	
	22 25.9.2010. 5 th International Congress "Flo (Opatija, Croatia)	Function: Member of the Organizing Committee our-Bread '09" and 7 th Croatian Congress of Cereal Technologists	
	21 23.10.2009. Congress of the Croatian Soci HDBMB 2008 (Osijek, Croatia	Function: Member of the Organizing Committee iety of Biochemistry and Molecular Biology with international participation,	
	17 20.09.2008	Function: Congress Secretary and Member of the Organizing Committee	



OTHER ACADEMIC ACHIEVEMNTS	
Book Chapters	
	Stjepanović, Marija; Budžaki, Sandra; Velić, Natalija; Ostojčić, Marta; Šereš, Zita; Maravić, Nikola; Brekalo, Mirna; Strelec, Ivica : Valorizacija i karakterizacija otpadne biomase crvenog luka // Neke mogućnosti iskorištenja nusproizvoda prehrambene industrije / Šubarić, Drago; Jozinović, Antur; Panjičko, Mario (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2022. p. 349-363
	Maravić, Nikola; Šoronja-Simović, Dragana; Pajin, Biljana; Budžaki, Sandra; Strelec, Ivica ; Fišteš, Aleksandar; Velić, Natalija; Šurlan, Jelena; Šereš, Zita: Proizvodnja pektina šećerne repe i njegova primjena // Neke mogućnosti iskorištenja nusproizvoda prehrambene industrije / Šubarić, Drago; Jozinović, Antun; Panjičko, Mario (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2022. p. 139-158
	Strelec, Ivica ; Ostojčić, Marta; Budžaki, Sandra: Transformacija ljuske kokošjih jaja u proizvode dodane vrijednosti // Neke mogućnosti iskorištenja nusproizvoda prehrambene industrije - Knjiga 3 / Šubarić, Drago; Miličević, Borislav (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku; Velečilište u Požegi, 2021. p. 303-327
	Budžaki, Sandra; Ostojčić, Marta; Strelec, Ivica : Heterogeni biokatalizatori na bazi otpada/nusproizvoda prehrambene industrije za održivu proizvodnju biodizela // Neke mogućnosti iskorištenja nusproizvoda prehrambene industrije – Knjiga 2 / Šubarić, Drago; Babić, Jurislav (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2019. p. 241-258
Editorial Board of the Scientific Journals	
	Croatian Journal of Food Science and Technology (2019 – onward)
Editor of Congress Proceedings	Proceedings of the 10 th International Congress Flour – Bread '19 / 12 th Croatian Congress of Cereal Technologists Brašno – Kruh '19 / Strelec, Ivica ; Jozinović, Antun; Budžaki, Sandra (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2020
	Proceedings of the 9 th International Congress Flour – Bread '17 / 11 th Croatian Congress of Cereal Technologists Brašno – Kruh '17. / Jozinović, Antun; Budžaki, Sandra; Strelec, Ivica (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2018
Editor of Congress Abstract	
Books	10 th International Congress Flour – Bread '19/ 12 th Croatian Congress of Cereal Technologists Brašno – Kruh '19 Book of Abstracts / Jozinović, Antun; Budžaki, Sandra; Strelec, Ivica ; Lončarić, Ante (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2019
	9 th International Congress Flour – Bread '17 / 11 th Croatian Congress of Cereal Technologists Brašno – Kruh '17, Book of Abstracts / Jozinović, Antun; Budžaki, Sandra; Strelec, Ivica (ur.). Osijek: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2017
	HDBMB2008 Congress of the Croatian Society of Biochemistry and Molecular Biology with international participation; Book of Abstracts / <i>Strelec, Ivica</i> ; Glavaš-Obrovac, Ljubica (ur.). Osijek: Hrvatsko društvo za biokemiju i molekularnu biologiju (HDBMB), 2008