



Dorin RADU

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Work: Turnului 5, 500152 Brasov (Romania)

WORK EXPERIENCE

Faculty of Civil Engineering, Transilvania University of Braşov – Brasov, Romania

City: Brasov | Country: Romania

Vice-Dean for Research Activities

[04/2020 – Current]

Civil Engineering Department - Faculty of Civil Engineering, Transilvania University of Braşov

Associate Professor

[02/2022 – Current]

Research and teaching activities. Teaching courses: Static and Stability of the Structures, Elasticity and Plasticity Theory, Building Information Modeling in Civil Engineering, Fire Safety in Civil Engineering.

Civil Engineering Department - Faculty of Civil Engineering, Transilvania University of Braşov

Lecturer

[02/2019 – 02/2022]

Research and teaching activities. Teaching courses and seminars: Steel Structures, Fracture Mechanics applied in Civil Engineering, Design of Structures for Seismic Actions, Elasticity and Plasticity Theory

Faculty of Civil Engineering, Transilvania University of Braşov

Assistant professor

[02/2006 – 02/2019]

Research and teaching activities. Teaching seminars: Strength of Materials, Building Materials

Faculty of Civil Engineering, Transilvania University of Braşov

Assistant lecturer

[02/2003 – 02/2006]

Teaching activities. Teaching seminars: Strength of Materials, Static and Stability of the Structures, Dynamics of Structures, Building Materials,

S.C. Proconstruct S.R.L. – Brasov, Romania

City: Brasov | Country: Romania

Civil engineer

[2003 – 2005]

Steel and concrete structures design.

EDUCATION AND TRAINING

CEEPUS mobility University of Osijek - Croatia

Lectures at Faculty of Civil Engineering and Architecture, J.J. Strossmayer University of Osijek [12/2019]

Erasmus mobility University of NoviSad - Serbia

Lectures at Faculty of Civil Engineering from Subotica – University of NoviSad - Serbia [04/2019]

Summer school, European Structural Integrity Society – Belgrade, Serbia

„Loading and Environment Effects on Structural Integrity” European Structural Integrity Society [08/2018]

Transilvania University Scholarship – Research Traineeship at Faculty of Mechanical Engineering, Belgrade, Serbia

Faculty of Mechanical Engineering, Belgrade, Serbia [2017]

Ph.D in Civil Engineering and Building Services

Politehnica University of Timișoara – Doctoral School [10/2013 – 02/2017]

City: Timișoara | Country: Romania | Final grade: Excellent | Level in EQF: EQF level 8 | Thesis: „Engineering Critical Assessment of the Cylindrical Steel Shell Structures”. Tutors: Prof. Eng. Radu Băncilă, PhD și Prof. Eng. Aleksandar Sedmak, PhD

The PhD thesis was accomplished and defended at Faculty of Civil Engineering of Politehnica University of Timișoara – Steel Structures and Construction Mechanics Department and in Faculty of Mechanical Engineering from Belgrade University - Serbia

International Welded Structures Designer

ISIM Timișoara [2014]

City: Timișoara

Research Study Scholarship Ministerul Educației Naționale - Agenția de Credite și Burse de Studii – Belgrad, Serbia

Faculty of Mechanical Engineering, Belgrad, Serbia [2014]

Research internship – Faculty of Mechanical Engineering – University of Belgrade, Serbia

Faculty of Mechanical Engineering – University of Belgrade, Serbia [2014]

Master degree

UNED, Spain [2012 – 2014]

City: Madrid | Country: Spain | Level in EQF: EQF level 7

Scholarship

Fachhochschule Konstanz [2002]

City: Konstanz | Country: Germany

Scholarship

Università degli Studi di Trento [2003]

City: Trento | Country: Italy

Bachelor degree in Civil Engineering

Transilvania University of Brașov, Faculty of Civil Engineering [1998 – 2003]

City: Brașov | Country: Romania | Level in EQF: EQF level 7

High school diploma/baccalaureate

Liceul Teoretic Dr. Ioan Meșotă [1994 – 1998]

City: Brasov | Country: Romania | Level in EQF: EQF level 3

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Italian

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

CONFERENCES & SEMINARS

12th Annual Conference of Society for Structural Integrity and Life (DIVK12), 17-19 November 2024, Belgrade Serbia

Keynote invited lecture - "*Structural integrity assessment – part of a sustainable development*", DIVK12, 17-19 November 2024, Belgrade Serbia

NATO SPS - Advanced Research Workshop – Countering Hybrid Threats Against Critical Infrastructures 21-23 May 2024, Braşov, Romania

Keynote invited lecture - "*Engineering Critical Assessment of the Existing Steel Structures*", NATO Science for Peace and Security Workshop, Braşov 21-23 May 2024

ECF24 – European Conference on Fracture – Zagreb, Croatia

Parallel session presentation - "*Fracture behaviour prediction of an historical bridge steel elements using Machine Learning Models*", ECF24, Zagreb, 26-30 August, Croatia

ECF23 – European Conference on Fracture – Madeira, Portugal 27 June- 1 July.

Parallel session presentation „*Residual life of a historic riveted steel bridge - engineering critical assessment approach*”, authors Dorin Radu, Radu Băncilă, Simon Sedmak, Mihajlo Arandelović

ECCE2022 - Environmental Challenges in Civil Engineering, Opole – Poland – 26-28 September 2022

Parallel session presentation „*Assessment and Retrofitting of Historical Steel Bridges in Transilvania Region, part of the Sustainable Development*”, authors Dorin RADU, Radu Băncilă.

ICSID 2021 - International Conference on Structural Integrity, 7-10 September 2021, Dubrovnik, Croatia

Parallel session presentation „*Solution for Consolidation and Retrofitting for a Historical Steel Bridge*”, authors: Dorin RADU, Radu Băncilă, Dorel Bolduş, Simon Sedmak, Mihajlo Arandelovic

VECF1 - European Structural Integrity Society - 1st Virtual European Conference on Fracture, July 2020

Parallel session presentation „*Welded Joints Integrity of Thick Plates Steel Bridges Beams*”, authors: Edward Petzek, Dorin RADU, Simon Sedmak, Andrei Firus

Croatian Society of Structural Mechanics lecture, December 2019

Plenary invited lecture - "*Structural Integrity Assessment of the Steel Structures*", invitation of Croatian Society of Structural Mechanics, Faculty of Civil Engineering and Architecture Osijek, University of Josip Juraj Strossmayer in Osijek – Croatia, December, 2019

ECF22 - 22nd European Conference on Fracture, August 2018, Belgrade, Serbia

Parallel session presentation "*Structural integrity of butt welded connection after fire exposure*", Dorin RADU, Teofil Gălăţanu, Simon Sedmak

Parallel session presentation "*Engineering critical assessment of an antenna tower steel shell elements welded joints*", Dorin RADU, Aleksandar Sedmak, Simon Sedmak

ICSI 2017 - 2nd International Conference on Structural Integrity, September 2017, Madeira, Spain

Parallel session presentation "*Structural integrity of a wind loaded cylindrical steel shell structure*", Dorin RADU, Sedmak Aleksandar, Radu Băncilă

CONTEMPORARY ACHIEVEMENTS in CIVIL ENGINEERING, Subotica 2016

Plenary invited lecture - "*Optimization solutions for truss beams elements welded joints*", Conference CONTEMPORARY ACHIEVEMENTS in CIVIL ENGINEERING - Subotica, Serbia 2016

CONTEMPORARY ACHIEVEMENTS in CIVIL ENGINEERING 2015

Plenary invited lecture - "*Truss beams welded joints strengthening solutions*", Conference CONTEMPORARY ACHIEVEMENTS in CIVIL ENGINEERING - Subotica, Serbia 2015

NT2F14 - New Trends in Fatigue and Fracture, Belgrade, Serbia „Fatigue and fracture at all scales“, 15-18 September 2014, Belgrade, Serbia

Parallel session presentation "*Optimisation of finite element models of welded joints with multiple defect combinations*", Dorin RADU

TEAM 2015 Technique, Education, Agriculture & Management, Belgrade, Serbia 2015

Parallel session presentation "*Design of cylindrical shell steel structures with billboard tower as a case study*", Dorin RADU, Aleksandar Sedmak

Lecturer at IWSD - ASR

2019 - present - Lectures for International Welding Structural Designer - Romanian Association for Welding

Research results published in Journals - first and second Quartile (Q1, Q2 Journals) (selection)

Author and co-author of more than 60 research papers indexed in WoS

Sedmak A., **Radu D.**, Arandelović M., Sedmak S., Băncilă R., Residual life assessment of the historical road riveted bridges, Martie 2024, Vol. 299, Engineering Fracture Mechanics, Elsevier Journal <https://doi.org/10.1016/j.engfracmech.2024.109960>

Arandelović M., Branislav D., Sedmak S., **Radu D.**, Petrovic A., Dikic S, Sedmak A., Failure analysis of welded joints with multiple defects by extended Finite Element Method and Engineering Critical Analysis, Engineering Failure Analysis, Elsevier Journal, 2024 <https://doi.org/10.1016/j.engfailanal.2024.108176>

Waqar A., Khan M.B., Afzal M.T., **Radu D.**, Gălăţanu T.F., Cazacu C.E., Dodo Y., Althoey F., Almujiabah H.R., Investigating the synergistic effects of carbon fiber and silica fume on concrete strength and eco-efficiency, Case Studies in Construction Materials, Springer Nature Volume 20, 2024, ISSN 2214-5095, <https://doi.org/10.1016/j.cscm.2024.e02967>.

Kovačević, M.; Jabbarian Amiri, B.; Lozančić, S.; Hadzima-Nyarko, M.; **Radu, D.**; Nyarko, E.K. Application of Machine Learning in Modeling the Relationship between Catchment Attributes and Instream Water Quality in Data-Scarce Regions. Toxics 2023, 11, 996. <https://doi.org/10.3390/toxics11120996>

Kumar, A., Arora, H.C., Kapoor, N.R. **Radu D.**, et al. Machine learning intelligence to assess the shear capacity of corroded reinforced concrete beams. Sci Rep 13, 2857 (2023).

Radu D., Sedmak A., Sedmak S., Wei L. „Engineering critical assessment of steel shell structure elements welded joints under high cycle fatigue”, 2020 Engineering Failure Analysis, Elsevier 10.1016/j.engfailanal.2020.104578

Arandelović M., Sedmak S, Jovičić R, Perković S, Burzić Z., **Radu D.**, Radaković Z, „Numerical and experimental investigation of fracture behaviour of welded joints with multiple defects”, MDPI Materials 2021 <https://www.mdpi.com/1996-1944/14/17/4832>

Waqar, A.; Othman, I.; **Radu, D.**; Ali, Z.; Almujiabah, H.; Hadzima-Nyarko, M.; Khan, M.B. Modeling the Relation between Building Information Modeling and the Success of Construction Projects: A Structural-Equation-Modeling Approach. Appl. Sci. 2023, 13, 9018. <https://doi.org/10.3390/app13159018>

Belbachir, A.; Benanane, A.; Ouazir, A.; Harrat, Z.R.; Hadzima-Nyarko, M.; **Radu, D.**; Işık, E.; Louhibi, Z.S.M.; Amziane, S. Enhancing the Seismic Response of Residential RC Buildings with an Innovative Base Isolation Technique. Sustainability 2023, 15, 11624. <https://doi.org/10.3390/su15111624>

Sedmak, A.; Doncheva, E.; Medjo, B.; Rakin, M.; Milosevic, N.; **Radu, D.** Crack Size and Undermatching Effects on Fracture Behavior of a Welded Joint. Materials 2023, 16, 4858. <https://doi.org/10.3390/ma16134858>

Latifi, R.; Hadzima-Nyarko, M.; **Radu, D.**; Rouhi, R. A Brief Overview on Crack Patterns, Repair and Strengthening of Historical Masonry Structures. Materials 2023, 16, 1882. <https://doi.org/10.3390/ma16051882>

Arandelović, M.; Petrović, A.; Đorđević, B.; Sedmak, S.; Sedmak, A.; Dikić, S.; **Radu, D.** Effects of Multiple Defects on Welded Joint Behaviour under the Uniaxial Tensile Loading: Fem and Experimental Approach. Sustainability 2023, 15, 761. <https://doi.org/10.3390/su15010761>

Radu D., Gălăţanu T.F., Sedmak S., „Butt welded joints assessment after fire exposure” Engineering Failure Analysis, 2019, ISSN 1350-6307, DOI 10.1016/j.engfailanal.2019.08.010 (ISI Journal - IF: 2.203)

Radu D., Sedmak A., Băncilă R., “Determining the crack acceptability în the welded joints of a wind loaded cylindrical steel shell structure”, Engineering Failure Analysis, 2018, ISSN 1350-6307, DOI10.1016/j.engfailanal.2018.04.032 (ISI Journal - IF: 2.157)

Research results published in WoS indexed Proceedings (selection)

Radu D., Sedmak A., Simon Sedmak, Momčilo Dunjić „Stress analysis of a steel structure comprising cylindrical shell with billboard tower” – Technical Gazette Vol25/no.2/2018 DOI 10.17559/TV-20160819201538. (ISI Journal - IF: 0.723)

Radu D., Feier A., Petzek E., Băncilă R, “Refurbishment of Existing Steel Structures – an Actual Problem”, Periodica Polytechnica Civil Engineering, v. 61, n. 3, p. 621-631, 2017. ISSN 1587-3773, DOI 10.3311/Ppci.9140 (IF 2017 = 0.323)

Radu D., Băncilă R., Bolduş D., Sedmak A., Arandelović M. „Solution for consolidation and retrofitting a historical steel bridge”, Procedia Structural Integrity 2022, <https://doi.org/10.1016/j.prostr.2022.02.008>

Radu D., Gălăţanu T.F., Sedmak S. “Structural integrity of butt welded connection after fire exposure”, Procedia Structural Integrity Volume 13, 2018, Pages 1082-1087, DOI: 10.1016/j.prostr.2018.12.227

Radu D., Feier A., „Steel antenna towers – from designing to manufacturing optimization”, September 2018 IOP Conference Series Materials Science and Engineering 399(1):012047 DOI: 10.1088/1757-899X/399/1/012047

Radu D., A. Sedmak, R. Bancila, “Structural integrity of a wind loaded cylindrical steel shell structure” Procedia Structural Integrity, 2nd International Conference on Structural Integrity, ICSI 2017, 4-7 September 2017, Funchal, Madeira, Portugal, Vol. 5, 2017, pp. 1213-1220

Radu D., Teofil-Florin Galatanu, Daniel Taus, “Fatigue Assessment and Behavior of a Shell Steel Element Welded Joint”, Procedia Engineering, Volume 181, 2017, Pag.159-166, <http://www.sciencedirect.com/science/article/pii/S187770581731007X>

Books and book chapters as author

Papatheodorou K., Baruffo C., Bölgen B., Hadzima-Nyarko M., Vaseashta A., Bărbulescu A., **Radu D.**, Ntouros K., Tzanou E, Rocc M., "Critical Infrastructures and Modern Societies", NATO Science for Peace and Security Series B: Physics and Biophysics (NAPSB), Springer, May 2025.

Radu D., Băncilă R., Bratu C., "Assessment of Existing Steel Bridges, a Critical Infrastructure Challenge", NATO Science for Peace and Security Series B: Physics and Biophysics (NAPSB), Springer, May 2025.

Băncilă R, Blaga, L.A., **Radu D.**, Bratu C., "Temporary fiber-polymer composite bridges, a solution for disaster recovery and military operations", NATO Science for Peace and Security Series B: Physics and Biophysics (NAPSB), Springer, May 2025.

Vaseashta A., Maftai C., **Radu D.**, Transformation and Efficiency Enhancement of Public Utilities Systems: Multidimensional Aspects and Perspectives, Chapter: Exploring Disruption Trajectories From COVID-19 on Education and the Impact of Policies: Lessons Learned and Path Forward IGI Global <https://doi.org/10.4018/978-1-6684-7730-4.ch012>

Popăescu A., Deaconu O., Croitoru G., **Radu D.**, "Existing Large and Thin Concrete Slab Damaged by Multiple Cracks Almost Pierced. Expertise, Diagnosis, Strengthening, Behavior and Control After Execution", High Tech Concrete: Where Technology and Engineering Meet, Proceedings of the 2017 fib Symposium, held in Maastricht, The Netherlands, June 12-14, 2017, Springer International Publishing AG 2018

Radu D., "Engineering critical assessment of the steel shell structures", Editura Politehnica Timisoara, 2017, ISBN 978-606-35-0132-6, 312 pag.

Editor of Books and Conference Proceedings Volumes

Countering Hybrid Threats Against Critical Infrastructures, Editors: **Dorin RADU**, Mirsada Hukić, Ashok Vaseashta, NATO Science for Peace and Security Series B: Physics and Biophysics (NAPSB), 2025, ISSN 1874-6500 Springer Nature Link

Construction Materials for Safe and Sustainable Built Structures, Editors: Marijana Hadzima-Nyarko, **Dorin RADU**, Special Issue MDPI Sustainability, MDPI Publishing 2024

Proceedings of CIBv 2023 Civil Engineering and Buildings Services, Springer Nature, 2024, ISSN:2366-2557, Editors: Ioan Tuns, Radu Muntean, **Dorin RADU**, Christiana Cazacu, Teofil Gălățanu

IOP Conference Series: Materials Science and Engineering, Volume 1283, 17th International Scientific Conference - Civil Engineering and Building Services CIBv2022, Editors: Ioan Tuns, Radu Muntean, **Dorin RADU**, Christiana Cazacu, Teofil Gălățanu, IOP Publishing Ltd, 2023, ISSN:1757-899X

IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021), Editors: Ioan Tuns, Radu Muntean, **Dorin RADU**, Christiana Cazacu, Teofil Gălățanu, IOP Conf. Series: Materials Science and Engineering, ISSN 978-1-5108-6992-9

IOP Conference Series: Materials Science and Engineering, Volume 1138, International Conference Civil Engineering and Building Services (CIBv 2020), IOP Conf. Series: Materials Science and Engineering 1138 (2021), Editors: Ioan Tuns, Radu Muntean, **Dorin RADU**, Christiana Cazacu, Teofil Gălățanu, ISSN :978-1-5108-6992-9

IOP Conference Series: Materials Science and Engineering, Volume 789, International Conference CIBv2019 Civil Engineering and Building Services, Editors: Ioan Tuns, Florin-Lucian Tamas, Radu Muntean, Teofil-Florin Galatanu, **Dorin RADU**, IOP Conf. Series: Materials Science and Engineering 789 (2020), ISSN:978-1-5108-6992-9

Grants and Research projects

Research projects

NATO Science for Peace and Security - G5992 Project - implementation period - year 2024, Project director;

IM4StEM - Intelligent methods for structures, elements and materials - KA220 - HED 2023-1-HR01-KA220-HED-000165929, 2023-2026, Coordinator for UNITBV;

Grant național "Studii și cercetări privind stabilirea soluțiilor constructive pentru spina ce deservește tehnologic și funcțional clădirile institutului de cercetare PRODD Contract nr. 20/2009. Durata 24 luni. Director (pentru instituția coordonatoare);

Grant național "Studii și cercetări privind stabilirea soluțiilor pentru structurile de rezistență aferente construcțiilor destinate Institutului de cercetare PRO DD", Durata 24 luni - membru în echipa de implementare a grantului;

BIMhealthy - Housing as a strategy for the promotion of health from an intersectoral and multidisciplinary approach, 2019-1-ES01-KA203-065060, valoare_grant_pr: 34515 euro, 2019 – 2021, Membru în echipă;

CircularBIM - Learning software for the reincorporation of building materials into the industrial value chain, enhancing the transition to the circular economy with the use of BIM technologies, 2019-1-ES01-KA203-065962 - 2019 – 2021, Membru în echipă;

UrbanBIM - Innovative Educational Integration of Urban Plannings Based on BIM-GIS Technologies, nr_contract:2018-1-RO01-KA203-049458 - 2018 – 2020 - membru în echipă;

Leonardo da Vinci "Work Based Learning (Learn&Work). Agreement no. 2006 DK/05/B/F/pp-145.502. Durata 24 luni (2005-2007) - membru în echipă;

Consultancy projects

Amenajare amfiteatre în spațiul atelierului de microproducție - platforma uzina Tractorul. Număr contract. /2012. Durata 12 luni.

Servicii de consiliere și consultanță în vederea promovării documentației tehnico-economice de construcții și instalații pentru avizarea în CTE a proiectului tehnic-proiectare și execuție, Reabilitare-Spitalul Clinic Județean de Urgență Brașov

MEMBER IN SCIENTIFIC COMMITTEES

Member in Scientific Committee of International Scientific Conferences (selection)

- Member in Scientific committee in International Conference on Organization and Technology of Maintenance - OTO 2021, OTO 2022, OTO2023, OTO 2024, OTO2025, Institute for strategic studies in Osijek, Croatia
- Member in Scientific committee for Conferences CONTEMPORARY ACHIEVEMENTS in CIVIL ENGINEERING 2021, 2019, 2018, 2017, 2016, 2015 - Subotica Serbia
- Organizer of the International Scientific Conference CIBv, CIBv2019, CIBv2020, CIBv2021, CIBv2022, CIBv2023, CIBv2024 - Braşov, Romania

Member in different councils and other technical committees

From 2020 - present – Member in Transilvania University from Braşov Senate

From 2020 - present – Member in Civil Engineering Department Council – Faculty of Civil Engineering from Transilvania University of Braşov

From 2019 - present - CEEPUS Coordinator for UnitBv – Faculty of Civil Engineering - “Central European Exchange Program for University Studies” - proiect HR-1302 Research and Education of Environmental Risks, together with University of Osijek, Faculty of Civil Engineering, University of Montenegro, Faculty of Civil Engineering, University of Novi Sad

Member in COMITETUL TEHNIC DE SPECIALITATE CTS A – Rezistență, Mecanică și Stabilitate, subcomitetul Construcții civile, Industriale și Agricole (numire conform Ordin de Ministru nr.510 din 07.04.2021)

Member in COMITETUL TEHNIC DE SPECIALITATE CTS B – Siguranță în Exploatare pentru Construcții, subcomitetul Construcții civile, Industriale și Agricole (numire conform Ordin de Ministru nr.510 din 07.04.2021)

Președintele Centrului Regional de Examinare pentru atestarea tehnico-profesională a verficatorilor de proiecte și a experților tehnici, centru în cadrul Ministerului Dezvoltării, Lucrărilor Publice și Administrației (numire conform Ordin de Ministru nr.1898 din 16.12.2021)

Member in Editorial Committee of IOP Journal – CIBv 2019, CIBv2020, CIBv2021 Proceedings.

Member in Reviewers Committee of MDPI Metals

Member in Editorial Committee of MDPI Applied Mechanics

Member in European Structural Integrity Society (ESIS)

Member in Council of European Structural Integrity Society (ESIS)

Member of Asociației Române de Mecanica Ruperii (ARMR)

Member of Asociației Inginerilor Proiectanți de Structuri (AICPS)

In 2013 - course „Auditori Energetici Clădiri și Instalații”

Relevant designing activity

Hardware stores in Nieuwerkerk, Nieuwegen, Best, Nijmegen, Sloterdijk/Amsterdam, Den Haag, Almelo, Apeldoorn, Enchede - Netherlands

Hardware stores in Heidelberg, Binzen, Essen, Eslingen, Dresden, Duisburg, Karlsruhe, Lübeck, Remsek - Germany

Hardware stores in Riddes, Littau - Switzerland

Hardware stores in Cestlice, Chichle - Czech Republic

Hardware stores in Bratislava - Slovakia

Hardware stores in București, Romania

Laboratory and Office Building for Pharmaceutical Industry, Brașov, Romania

Showroom & service Audi București, Romania

Showroom & service Volkswagen București, Romania

Amphitheatre of Faculty of Civil Engineering, Transilvania University of Brașov

Research Institute PRO-DD, Transilvania University of Brașov

Significant activity in structural design, with over 80 major projects completed to date.

SKILLS

SCIA Engineer - Proficient user / CSI Bundle (Etabs, SAFE, SAP2000) / TEKLA Structures / AutoCAD, AutoCAD 3D / BIM plus

RESEARCHER ID

Identification number for different research indexed data base

Web of Science Researcher ID E-2357-2014

<https://orcid.org/0000-0001-5043-2723>

Hirsch index: **11** (WoS), **11** (Scopus), **14** (GoogleScholar)

Citing: **262** (WoS), **353** (Scopus), **492** (GoogleScholar)