


PERSONAL INFORMATION


Ivo Domenico Calio



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ORCID ID <https://orcid.org/0000-0002-8063-8359>

Date of birth 04/12/1964 | Nationality Italy

Current Position full professor at the University of Catania

RESEARCH INTERESTS

Summary

Ivo Calio received his PhD in Structural Engineering in 1995 investigating the large displacement response of structures subjected to uplift foundations during earthquakes. In 1997 he started his academic career at the University of Catania in Italy where he continued his research on nonlinear dynamics and earthquake engineering. He supervised many PhD students and post-doctoral researches working on seismic vulnerability and retrofitting of existing buildings not designed to resist earthquakes and proposed a new computational strategy for the simulation of the nonlinear behaviour of masonry structures known as Discrete Macro-Element Method (DMEM). In 2009 he initiated a research group, involving many PhD students and academic researchers, for the development of advanced structural engineering software based on the DMEM, suitable both for academic investigations and practical engineering. Within this research topic two structural analysis programs have been developed: 3DMacro for masonry buildings and HiStrA (Historical Structure Analysis) focused on the Structural Assessment of Historical Monumental Structures and Masonry Bridges. A key feature of his work has been extensive international collaboration with fellow academics particularly in Portugal and UK. From 2012 he is collaborating with Prof Paulo Lourenco of the university of Minho and his research team on the use and validation of the DMEM for masonry monumental structures and masonry bridge. In 2015 he started a collaboration with Prof Bassam Izzuddin of the Imperial College of London on the seismic vulnerability assessment and innovative retrofitting strategies of buildings not designed to resist earthquakes. His publication record exceeds 180 papers in leading international journal and conferences.

SCOPUS: h-index 27, citations 1969, documents 119

Google Scholar: h-index 28, citations 2602, i10-index 57

Bibliometric Indicators

WORK EXPERIENCE AND RESEARCH TOPICS

From 01/10/2016 to today

University of Catania – Full Professor

Dipartimento di Ingegneria Civile e Architettura

- Nonlinear modelling of masonry structures.
- Discrete Macro-modelling of masonry structures.
- Modelling and vulnerability assessment of masonry bridges
- Seismic protection and retrofitting of monumental structures
- Vulnerability assessment of art objects and museum contents
- Numerical methods for seismic response of masonry, mixed masonry/reinforced concrete structures.
- Nonlinear Dynamics of Structures.
- Nonlinear modelling of reinforced concrete structures.
- Closed form solutions of inhomogeneous beams in static and dynamics.
- Closed form solutions of cracked beams in static and dynamics.
- Nonlinear behaviour of rocking structures.
- FE element inelastic beam models .
- The Dynamic Stiffness method in the context of dynamics and stability of damaged framed systems and arch structures.
- Foundation lifting on the dynamic behaviour of structures.
- Nonlinear Soil Structure Interaction problems.

- Seismic vulnerability assessment and retrofitting of existing structures.
- Seismic isolation of buildings and objects of arts.
- Nonlinear modelling of infilled frame structures.
- Hysteretic dissipators for the seismic protection of existing buildings.
- Inverse solutions and methods of dynamic identification of damage in structures.
- Building Information Modelling versus Structural Analyses

From 2005 to 2016 **University of Catania – Associate Professor**

Dipartimento di Ingegneria Civile e Architettura

From 1997 to 2005 **University of Catania - Researcher**

Dipartimento di Ingegneria Civile e Architettura

From 1995 to 1996 **Research training scholarship with community contribution SINTESI (Technological Synergies in Sicily), University of Catania**

EDUCATION AND TRAINING

1995 **PhD in Structural Engineering at the University of Catania**

Doctoral thesis on the " Interazione Dinamica tra Suolo e Struttura in presenza di Sollevamento della Fondazione " Supervisor: Prof. G. Oliveto

1985 **Civil Engineering, curriculum structures, University of Catania**

Master degree: final mark 110/110 cum laude

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
English	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

MAIN ROLES AND RESPONSIBILITIES

- 2019-2021 Coordinator of the Catania Research Unit within the fourth national project funded by the Civil Protection of the RELUIS for the WP5 and WP10
- 2014-2018 Coordinator of the Catania Research Unit within the third national project funded by the Civil Protection of the RELUIS project on masonry constructions.
- 2012-2014 Coordinator of the Catania research Unit within the third national project funded by the Civil Protection of the RELUIS project on masonry constructions.
- 2009-2012 Coordinator of the Catania Research Unit within the second national project funded by the Civil Protection of the RELUIS project on masonry constructions.  
Coordinator of the Catania Research Unit within the national project funded by the Civil Protection (line 1 of the RELUIS project on masonry constructions).
- 2005-2008 Scientific responsible of DICAR (University of Catania) within the National Seismic Microzonation Center as a structural engineering expert
- 2019-today Coordinator of the Catania Research Unit within the second national project funded by the Civil Protection of the RELUIS project on masonry constructions.
- Since 2021 Scientific coordinator of the "Monvia: "SVILUPPO E OTTIMIZZAZIONE DI UN SISTEMA GENERAL PURPOSE MODULARE PER IL MONITORAGGIO STRUTTURALE", (Principal Investigator Systemia), financed by MISE - total financing € 1.300.000,00. Other Partners IPCF-CNR Messina.
- Since 2018 Work Package coordinator of the "AGM for CuHe: Advanced Green Materials for Cultural Heritage" (Principal Investigator prof. Germana Barone), financed by Minister of University and Scientific Research - total financing € 9.987.623,43. Other partners: Costruzioni Edil Ponti s.c.a.r.l.; Distretto Tecnologico Sicilia Micro e Nano Sistemi; INSTM Consorzio Interuniversitario Nazionale per la Scienza e la Tecnologia dei Materiali; LBC soc. coop. Artigiana- M.E.G.A.RES. S.r.l.; Piacenti s.p.a.-

Since 2018 SB Engineering s.r.l.; Università degli Studi di Firenze, Università degli Studi di Modena e Reggio Emilia; Università degli Studi di Pisa  
 Work Package coordinator of the “eWAS: An Early warning System for Cultural Heritage” (Principal Investigator dott. Domenico Patanè), financed by Minister of University and Scientific Research - total financing € 8.346.582,02. Other partners: Comune di Catania- ETNA HITECH s.c.p.a.- Ingegneria Costruzioni Colombrita s.r.l.- L. & R. Laboratori e Ricerche s.r.l.- Meridionale Impianti s.p.a.- N.T.E.T. s.p.a.- TME s.r.l.- Università KORE di Enna

TEACHING ACTIVITY

Since 2016	Dynamics of Structures with applications to Earthquake Engineering
2013 - 2016	Inelastic analysis of structures
2012 - 2013	Mechanics of structures
2011 - 2012	Inelastic analysis of structures
2005 - 2011	Dynamics of Structures
2005 - 2006	Mechanics of masonry structures
2005 - 2008	Mechanics of structures
2002 - 2005	Dynamics of Structures
1999 - 2002	Dynamic of Structures with application to Seismic Engineering

ORGANIZATION OF SCIENTIFIC MEETINGS (in the last 10 years)

2017 Chariman and President of the Conference “Prevenire o Ricostruire”, Università di Catania, 11 gennaio 2017. Invited keynote presentations of national and international scientists.

FURTHER INFORMATION

Recent Scientific Consultancy

- 2020. Numerical modeling of strategic buildings finalized to dynamic identification, research convention with Italian National Research Council (CNR).
- 2021. Seismic modeling of masonry arch bridges along the CircumEtna railway of Catania, Scientific consultancy.
- 2018. Support to bridge inspection activity along the CircumEtna railway of Catania, Scientific consultancy.
- 2018. Scientific Coordinator of DICAR (Dipartimento Ingegneria Civile e Architettura) University of Catania within the research consultancy for SICILFERRO on Research and development of an innovative dissipative frame systems for retrofitting of existing reinforced concrete buildings.
- 2018. INNTECH SRL Patent engineering of a seismic isolator, Scientific consultancy.
- 2016. Scientific Coordinator of DICAR (Dipartimento Ingegneria Civile e Architettura) University of Catania within the research financed by ANCE (National Association of Italian Builders) on Research and development of seismic retrofitting strategies for reinforced concrete buildings.

Technology transfer

Since 2009. Co-founder of the startup ‘Gruppo Sismica’ for research on seismic engineering modelling and software development based on discrete macro element method (3DMacro and HiStrA) and research collaboration on numerical modelling of existing structures and masonry bridges.

Research monographs and chapters in collective volumes

- Minga, E., Macorini, L., Izzuddin, B.A., Calì, Macromodeling (2019) Numerical Modeling of Masonry and Historical Structures: From Theory to Application, pp. 263-294. DOI: 10.1016/B978-0-08-102439-3.00008-7. Book Chapter
- Caddemi, S., Calì, I., Cannizzaro, F., Pantò, B., Rapicavoli, D. Discrete macroelement modeling (2019) Numerical Modeling of Masonry and Historical Structures: From Theory to Application, pp. 503-533. DOI: 10.1016/B978-0-08-102439-3.00014-2. Book Chapter
- Chácará, C., Lourenço, P.B., Cannizzaro, F., Pantò, B., Calì, I. Assessment of the Seismic Vulnerability of an Unreinforced Masonry Structure Based on Discrete-Macro Dynamic Analyses (2019) RILEM Bookseries, 18, pp. 1210-1218. DOI: 10.1007/978-3-319-99441-3\_130. Book Chapter

Memberships

Since 2000. Associazione Italiana di Meccanica Teorica e Applicata (AIMETA)  
 Since 2000. Europeans Mechanics Society (EUROMECH)  
 Since 2000. Associazione Nazionale Italiana Ingegneria Sismica (ANIDIS)  
 Since 2000. Gruppo di Lavoro per l’isolamento sismico (GLIS)

Evaluation of research results

Since 2015. Editor: Associate Editor di Shock & Vibration  
 Since 2017. Editor: Academic Editor di Frontiers in Built Environment, section Earthquake

## Engineering

Since 2000. Reviewer of several international journals: AIAA journal, Advances in Engineering Software, Applied Mathematical Modeling, Archive of applied mechanics, Bulletin of Earthquake Engineering, Computer & Structures, Construction and Building Materials, Earthquake Engineering and Structural Dynamics, Engineering Structures, Frattura e Integrità Strutturale, Meccanica, International Journal of Architectural Heritage, International Journal of Mechanical Science, Journal of Cultural Heritage, Journal of Earthquake Engineering, Journal of Franklin Institute, Journal of Sound and Vibration, Journal of Strain Analysis, Journal of Vibration & Control, Natural Hazard, Proceedings of Royal Society of London, Qscience Connect, Structural Engineering and Mechanics, Structures, International journal of solids and structures.

## Honours, awards, other qualifications

April 2022. invited keynote lecture titled 'Seismic Vulnerability and Retrofitting of RC Buildings Not Designed To Resist Earthquakes'. within the 7th international conference on structural engineering and concrete technology

Since 2015. Member of an international group doing and promoting research on the dynamic stiffness method which promotes international workshops based on invited lectures

## International cooperations

Since 2015. Research cooperation with Imperial College London - UK

Since 2012. Research cooperation with University of Minho - Portugal

Since 2018. Research cooperation with University of Brighton – UK

Since 2020. Research cooperation with University of Glasgow – UK

Since 2022. Research cooperation with University of Oxford – UK

## Personal data

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

Date: Catania, 1<sup>st</sup> January 2024

Signature: Ivo Domenico Calìo



## List of the top journal publications in the main research field (in the last ten years)

1. Cannizzaro F., Pantò B., Caddemi S., Calìo I. Discrete modelling of externally bonded composite layers on masonry structures (2023) Composite Structures, 315, art. no. 116937.
2. Vadalà, F., Cusmano, V., Funari, M.F., Calìo, I., Lourenço, P.B. On the use of a mesoscale masonry pattern representation in discrete macro-element approach (2022) Journal of Building Engineering, 50, art. no. 104182. DOI: 10.1016/j.jobe.2022.104182
3. Occhipinti, G., Calìo, I., D'Altri, A.M., Grillanda, N., de Miranda, S., Milani, G., Spacone, E. Nonlinear finite and discrete element simulations of multi-storey masonry walls (2022) Bulletin of Earthquake Engineering, 20 (4), pp. 2219-2244. DOI: 10.1007/s10518-021-01233-7
4. Cattari, S., Calderoni, B., Calìo, I., Camata, G., de Miranda, S., Magenes, G., Milani, G., Saetta, A. Nonlinear modeling of the seismic response of masonry structures: critical review and open issues towards engineering practice (2022) Bulletin of Earthquake Engineering, 20 (4), pp. 1939-1997. DOI: 10.1007/s10518-021-01263-1
5. Occhipinti, G., Cannizzaro, F., Caddemi, S., Calìo, I. A discrete macro element method for modelling ductile steel frames around the openings of URM buildings as low impact retrofitting strategy (2021) Sustainability (Switzerland), 13 (17), art. no. 9787. DOI: 10.3390/su13179787
6. Pantò, B., Caddemi, S., Calìo, I., Spacone, E. A 2D beam-column joint macro-element for the nonlinear analysis of RC frames (2021) Earthquake Engineering and Structural Dynamics, 50 (3), pp. 935-954. DOI: 10.1002/eqe.3375
7. Cacciola, P., Calìo, I., Fiorini, N., Occhipinti, G., Spina, D., Tombari, A. Seismic response of nonlinear soil-structure interaction systems through the Preisach formalism: the Messina Bell Tower case study (2021) Bulletin of Earthquake Engineering. DOI: 10.1007/s10518-021-01268-w
8. Cocuzza Avellino, G., Cannizzaro, F., Di Martino, A., Valenti, R., Paternò, E., Calìo, I., Impollonia, N. Numerical and Experimental Response of Free-Standing Art Objects Subjected to Ground Motion (2021) International Journal of Architectural Heritage. DOI: 10.1080/15583058.2021.1902019
9. Cannizzaro, F., Impollonia, N., Caddemi, S., Calìo, I. Explicit dynamic response of damaged beams with application to uncertain and identification problems (2020) Journal of Sound and Vibration, 487, art. no. 115608. DOI: 10.1016/j.jsv.2020.115608
10. Minga, E., Macorini, L., Izzuddin, B.A., Calìo, I. 3D macroelement approach for nonlinear FE analysis of URM components subjected to in-plane and out-of-plane cyclic loading (2020) Engineering Structures, 220, art. no. 110951. DOI: 10.1016/j.engstruct.2020.110951
11. Greco, A., Fiore, I., Occhipinti, G., Caddemi, S., Spina, D., Calìo, I. An equivalent non-uniform beam-like model for dynamic analysis of multi-storey irregular buildings (2020) Applied Sciences (Switzerland), 10 (9), art. no. 3212. DOI: 10.3390/app10093212
12. Maio, R., Ferreira, T.M., Estêvão, J.M.C., Pantò, B., Calìo, I., Vicente, R. Seismic performance-based assessment of urban cultural heritage assets through different macroelement approaches (2020) Journal of Building Engineering, 29, art. no. 101083. DOI: 10.1016/j.jobe.2019.101083
13. Chàcara, C., Cannizzaro, F., Pantò, B., Calìo, I., Lourenço, P.B. Seismic vulnerability of URM structures based on a Discrete Macro-Element Modeling (DMEM) approach (2019) Engineering Structures, 201, art. no. 109715. DOI: 10.1016/j.engstruct.2019.109715

14. Pantò, B., Rapicavoli, D., Caddemi, S., Calìo, I. A Fibre Smart Displacement Based (FSDB) beam element for the nonlinear analysis of reinforced concrete members (2019) *International Journal of Non-Linear Mechanics*, 117, art. no. 103222. DOI: 10.1016/j.ijnonlinmec.2019.07.007
15. Greco, A., Pluchino, A., Barbarossa, L., Barreca, G., Calìo, I., Martinico, F., Rapisarda, A. A new agent-based methodology for the seismic vulnerability assessment of urban areas (2019) *ISPRS International Journal of Geo-Information*, 8 (6), art. no. 274. DOI: 10.3390/ijgi8060274
16. Pantò, B., Calìo, I., Lourenço, P.B. A 3D discrete macro-element for modelling the out-of-plane behaviour of infilled frame structures (2018) *Engineering Structures*, 175, pp. 371-385. DOI: 10.1016/j.engstruct.2018.08.022
17. Chàcara, C., Cannizzaro, F., Pantò, B., Calìo, I., Lourenço, P.B. Assessment of the dynamic response of unreinforced masonry structures using a macroelement modeling approach (2018) *Earthquake Engineering and Structural Dynamics*, 47 (12), pp. 2426-2446. DOI: 10.1002/eqe.3091
18. Caddemi, S., Calìo, I., Cannizzaro, F., Morassi, A. A procedure for the identification of multiple cracks on beams and frames by static measurements (2018) *Structural Control and Health Monitoring*, 25 (8), art. no. e2194. DOI: 10.1002/stc.2194
19. Cannizzaro, F., Pantò, B., Caddemi, S., Calìo, I. A Discrete Macro-Element Method (DMEM) for the nonlinear structural assessment of masonry arches (2018) *Engineering Structures*, 168, pp. 243-256. DOI: 10.1016/j.engstruct.2018.04.006
20. Cannizzaro, F., De Los Rios, J., Caddemi, S., Calìo, I., Ilanko, S. On the use of a roving body with rotary inertia to locate cracks in beams (2018) *Journal of Sound and Vibration*, 425, pp. 275-300. DOI: 10.1016/j.jsv.2018.03.020
21. Greco, A., Pluchino, A., Cannizzaro, F., Caddemi, S., Calìo, I. Closed-form solution based genetic algorithm software: Application to multiple cracks detection on beam structures by static tests (2018) *Applied Soft Computing Journal*, 64, pp. 35-48. DOI: 10.1016/j.asoc.2017.11.040
22. Cannizzaro, F., Pantò, B., Lepidi, M., Caddemi, S., Calìo, I. Multi-directional seismic assessment of historical masonry buildings by means of macro-element modelling: Application to a building damaged during the L'Aquila earthquake (Italy) (2017) *Buildings*, 7 (4), art. no. 106. DOI: 10.3390/buildings7040106
23. Pantò, B., Cannizzaro, F., Calìo, I., Lourenço, P.B. Numerical and Experimental Validation of a 3D Macro-Model for the In-Plane and Out-Of-Plane Behavior of Unreinforced Masonry Walls (2017) *International Journal of Architectural Heritage*, 11 (7), pp. 946-964. DOI: 10.1080/15583058.2017.1325539
24. Calìo, I., D'Urso, D., Greco, A. The influence of damage on the eigen-properties of Timoshenko spatial arches (2017) *Computers and Structures*, 190, pp. 13-24. DOI: 10.1016/j.compstruc.2017.04.012
25. Caddemi, S., Calìo, I., Cannizzaro, F. The dynamic stiffness matrix (DSM) of axially loaded multi-cracked frames (2017) *Mechanics Research Communications*, 84, pp. 90-97. DOI: 10.1016/j.mechrescom.2017.06.012
26. Pantò, B., Calìo, I., Lourenço, P.B. Seismic safety evaluation of reinforced concrete masonry infilled frames using macro modelling approach (2017) *Bulletin of Earthquake Engineering*, 15 (9), pp. 3871-3895. DOI: 10.1007/s10518-017-0120-z
27. Pantò, B., Cannizzaro, F., Caddemi, S., Calìo, I., Chàcara, C., Lourenço, P.B. Nonlinear modelling of curved masonry structures after seismic retrofit through FRP reinforcing (2017) *Buildings*, 7 (3), art. no. 79. DOI: 10.3390/buildings7030079
28. Cannizzaro, F., Greco, A., Caddemi, S., Calìo, I. Closed form solutions of a multi-cracked circular arch under static loads (2017) *International Journal of Solids and Structures*, 121, pp. 191-200. DOI: 10.1016/j.ijsolstr.2017.05.026
29. Caddemi, S., Calìo, I., Cannizzaro, F., Pantò, B. New frontiers on seismic modeling of masonry structures (2017) *Frontiers in Built Environment*, 3, art. no. 39. DOI: 10.3389/fbuil.2017.00039
30. Pantò, B., Rapicavoli, D., Caddemi, S., Calìo, I. A smart displacement based (SDB) beam element with distributed plasticity (2017) *Applied Mathematical Modelling*, 44, pp. 1339-1351. DOI: 10.1016/j.apm.2017.01.018
31. Pantò, B., Giresini, L., Sassu, M., Calìo, I. Non-linear modeling of masonry churches through a discrete macro-element approach (2017) *Earthquake and Structures*, 12 (2), pp. 223-236. DOI: 10.12989/eas.2017.12.2.223
32. Calìo, I., Greco, A., D'Urso, D. Structural models for the evaluation of eigen-properties in damaged spatial arches: a critical appraisal (2016) *Archive of Applied Mechanics*, 86 (11), pp. 1853-1867. DOI: 10.1007/s00419-016-1151-7
33. Pantò, B., Cannizzaro, F., Caddemi, S., Calìo, I. 3D macro-element modelling approach for seismic assessment of historical masonry churches (2016) *Advances in Engineering Software*, 97, pp. 40-59. DOI: 10.1016/j.advengsoft.2016.02.009
34. Caddemi, S., Calìo, I., Cannizzaro, F. Tensile and compressive buckling of columns with shear deformation singularities (2015) *Meccanica*, 50 (3), pp. 707-720. DOI: 10.1007/s11012-014-9964-3
35. Caddemi, S., Calìo, I. Exact reconstruction of multiple concentrated damages on beams (2014) *Acta Mechanica*, 225 (11), pp. 3137-3156. DOI: 10.1007/s00707-014-1105-5
36. Calìo, I., Greco, A., D'Urso, D. Free vibrations of spatial Timoshenko arches (2014) *Journal of Sound and Vibration*, 333 (19), pp. 4543-4561. DOI: 10.1016/j.jsv.2014.04.019
37. Calìo, I., Pantò, B. A macro-element modelling approach of Infilled Frame Structures (2014) *Computers and Structures*, 143, pp. 91-107. DOI: 10.1016/j.compstruc.2014.07.008
38. Caddemi, S., Calìo, I., Cannizzaro, F., Rapicavoli, D. A novel beam finite element with singularities for the dynamic analysis of discontinuous frames (2013) *Archive of Applied Mechanics*, 83 (10), pp. 1451-1468. DOI: 10.1007/s00419-013-0757-2
39. Caddemi, S., Calìo, I., Cannizzaro, F. The influence of multiple cracks on tensile and compressive buckling of shear deformable beams (2013) *International Journal of Solids and Structures*, 50 (20-21), pp. 3166-3183. DOI: 10.1016/j.ijsolstr.2013.05.023
40. Caddemi, S., Calìo, I. The exact explicit dynamic stiffness matrix of multi-cracked Euler-Bernoulli beam and applications to damaged frame structures (2013) *Journal of Sound and Vibration*, 332 (12), pp. 3049-3063. DOI: 10.1016/j.jsv.2013.01.003
41. Caddemi, S., Calìo, I. The exact stability stiffness matrix for the analysis of multi-cracked frame structures (2013) *Computers and Structures*, 125, pp. 137-144. DOI: 10.1016/j.compstruc.2013.05.003
42. Caddemi, S., Calìo, I., Cannizzaro, F. Closed-form solutions for stepped Timoshenko beams with internal singularities and along-axis external supports (2013) *Archive of Applied Mechanics*, 83 (4), pp. 559-577. DOI: 10.1007/s00419-012-0704-7
43. Calìo, I., Greco, A. Free vibrations of Timoshenko beam-columns on Pasternak foundations (2013) *JVC/Journal of Vibration and Control*, 19 (5), pp. 686-696. DOI: 10.1177/1077546311433609

- 44. Calìo, I., Marletta, M., Pantò, B. A new discrete element model for the evaluation of the seismic behaviour of unreinforced masonry buildings (2012) *Engineering Structures*, 40, pp. 327-338. DOI: 10.1016/j.engstruct.2012.02.039
- 45. Caddemi, S., Calìo, I. The influence of the axial force on the vibration of the Euler-Bernoulli beam with an arbitrary number of cracks (2012) *Archive of Applied Mechanics*, 82 (6), pp. 827-839. DOI: 10.1007/s00419-011-0595-z

✗ di essere in atto in possesso dei requisiti relativi agli indicatori per far parte delle commissioni dell'Abilitazione scientifica nazionale, attestato dal raggiungimento dei seguenti indicatori ottenuti da SCOPUS:

Per completezza si riportano anche gli indicatori ottenuti da iris.unict.it in due range temporali di simulazione

Range temporale simulazione	ha i requisiti da professore di seconda fascia	ha i requisiti da professore di prima fascia	ha i requisiti da commissario
2007/2012/2017-2022	Sì	Sì	Sì
2008/2013/2018-2023	Sì	Sì	Sì



## Ivo Domenico CALIO'

### Inquadramento

<b>Struttura</b>	INGEGNERIA CIVILE E ARCHITETTURA (DICAR)
<b>Qualifica</b>	Professori Ordinari
<b>Area</b>	AREA MIN. 08 - Ingegneria civile e architettura
<b>SSD</b>	Settore ICAR/08 - Scienza delle Costruzioni
<b>SC</b>	08/B2 - SCIENZA DELLE COSTRUZIONI

### Identificativi

ORCID ID	Publons/Researcher ID	SCOPUS AUTHOR-ID
0000-0002-8063-8359		6603126726

### Copertura IRIS ultimi 15 anni

Presenti in IRIS	Con identificativo WOS	Con identificativo SCOPUS
183	72	109



## ASN 2023-2025

<b>ASN 2023-2025</b>				
<b>SECONDA FASCIA</b>	Valore	INDICATORE	Soglia	Stato
	28	Numero articoli ultimi 5 anni	6	✔
	1400	Numero citazioni ultimi 10 anni	107	✔
	20	H index ultimi 10 anni	5	✔
La simulazione ASN per il ruolo di docente di Seconda Fascia ha esito positivo?				<b>SI</b>
<b>PRIMA FASCIA</b>	Valore	INDICATORE	Soglia	Stato
	55	Numero articoli ultimi 10 anni	13	✔
	2124	Numero citazioni ultimi 15 anni	195	✔
	26	H index ultimi 15 anni	8	✔
La simulazione ASN per il ruolo di docente di Prima Fascia ha esito positivo?				<b>SI</b>
<b>COMMISSARIO</b>	Valore	INDICATORE	Soglia	Stato
	55	Numero articoli ultimi 10 anni	20	✔
	2124	Numero citazioni ultimi 15 anni	394	✔
	26	H index ultimi 15 anni	11	✔
La simulazione ASN per il ruolo di Commissario ha esito positivo?				<b>SI</b>

**NOTE**

Indicatore 1. Articoli su riviste presenti su Scopus e/o WoS, limitatamente alle tipologie Scopus article, article in press, review, letter, note, short survey e alle tipologie WoS article, letter, note, review  
 Indicatore 2. Citazioni ricevute dalle pubblicazioni indicizzate da Scopus o da WoS (si considera la banca dati con il valore di citazioni più alto), nessuna tipologia esclusa.  
 Indicatore 3. H Index calcolato sulla base della produzione scientifica e delle citazioni di cui al punto 2



## ***Ivo Domenico CALIO'***

<b>Inquadramento</b>	
<b>Struttura</b>	INGEGNERIA CIVILE E ARCHITETTURA (DICAR)
<b>Qualifica</b>	Professori Ordinari
<b>Area</b>	AREA MIN. 08 - Ingegneria civile e architettura
<b>SSD</b>	Settore ICAR/08 - Scienza delle Costruzioni
<b>SC</b>	08/B2 - SCIENZA DELLE COSTRUZIONI

<b>Identificativi</b>		
<b>ORCID ID</b>	<b>Publons/Researcher ID</b>	<b>SCOPUS AUTHOR-ID</b>
0000-0002-8063-8359		6603126726

<b>Copertura IRIS ultimi 15 anni</b>		
<b>Presenti in IRIS</b>	<b>Con identificativo WOS</b>	<b>Con identificativo SCOPUS</b>
173	69	106



## ASN 2023-2025

<b>ASN 2023-2025</b>				
<b>SECONDA FASCIA</b>	Valore	INDICATORE	Soglia	Stato
	22	Numero articoli ultimi 5 anni	6	✓
	1149	Numero citazioni ultimi 10 anni	107	✓
	19	H index ultimi 10 anni	5	✓
La simulazione ASN per il ruolo di docente di Seconda Fascia ha esito positivo?				<b>SI</b>
<b>PRIMA FASCIA</b>	Valore	INDICATORE	Soglia	Stato
	50	Numero articoli ultimi 10 anni	13	✓
	2025	Numero citazioni ultimi 15 anni	195	✓
	25	H index ultimi 15 anni	8	✓
La simulazione ASN per il ruolo di docente di Prima Fascia ha esito positivo?				<b>SI</b>
<b>COMMISSARIO</b>	Valore	INDICATORE	Soglia	Stato
	50	Numero articoli ultimi 10 anni	20	✓
	2025	Numero citazioni ultimi 15 anni	394	✓
	25	H index ultimi 15 anni	11	✓
La simulazione ASN per il ruolo di Commissario ha esito positivo?				<b>SI</b>