

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
وزارة السكن و العمران و المدينة

Ministry of Housing, Urban Planning and the City

المركز الوطني للبحث المطبق في هندسة مقاومة الزلازل



National Center for Applied Research in Earthquake Engineering (CGS)

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SCIENTIFIC OUTPUT OF THE CGS

(International and National Publications)

2000 – March 31, 2026

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Introduction

This report provides an overview of the scientific output of the *National Center for Applied Research in Earthquake Engineering (CGS)*, in terms of both international and national publications, over the period spanning from 2000 to March 31, 2026.

The activities of the CGS are primarily focused on applied research in the following areas:

- Seismic hazard assessment
- Seismic microzonation and earthquake engineering
- Seismic risk mitigation studies
- Expert evaluation and consultancy
- Training and capacity building

In order to assess the Center's scientific production during the period under review (2000–March 31, 2026), the following indicators have been considered:

1. International publications
2. National publications

The research outcomes achieved by the CGS during this period have resulted in:

- The publication of **195 articles** (as of March 31, 2026) in peer-reviewed international journals classified as A and B, positioning the Center among the leading research institutions in Algeria (source:DGRSDT).

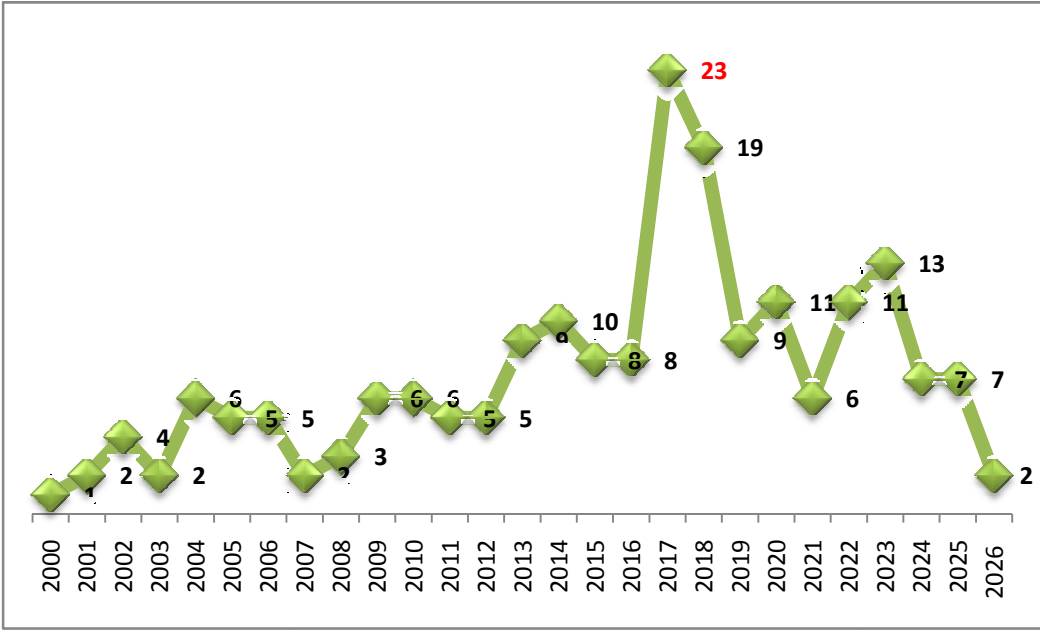
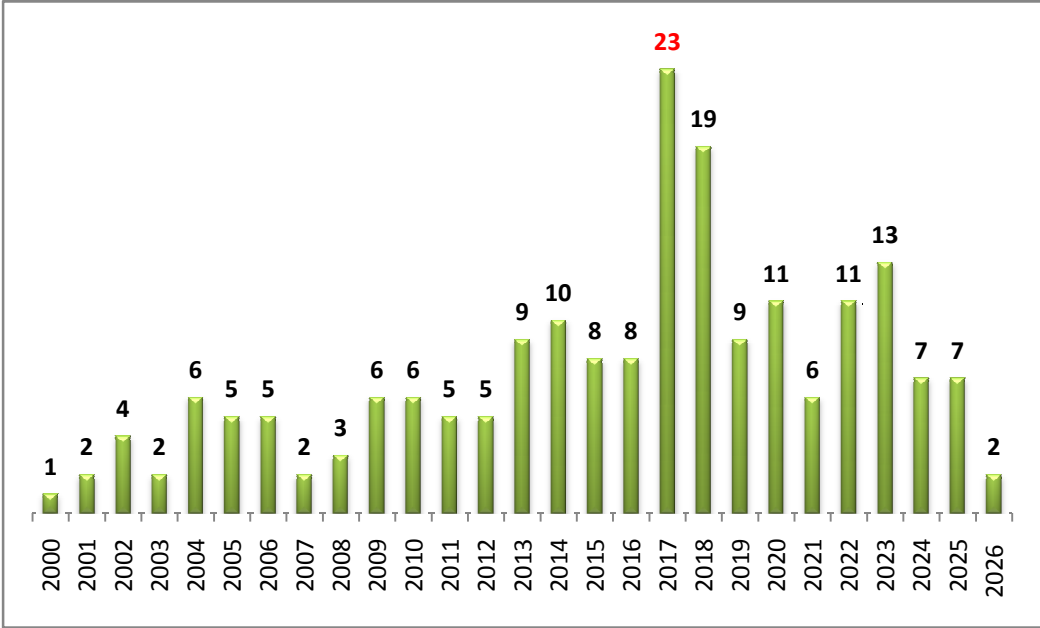
- The publication of **33 articles** in national journals (from 2004 to March 31, 2026). This relatively modest number reflects both the limited availability of national journals and the absence of specialized journals in the field of earthquake engineering.

1. INTERNATIONAL PUBLICATIONS

Evolution number of international publications

date	Number of publications
2000	1
2001	2
2002	4
2003	2
2004	6
2005	5
2006	5
2007	2
2008	3
2009	6
2010	6
2011	5
2012	5
2013	9
2014	10
2015	8
2016	8
2017	23
2018	19
2019	9
2020	11
2021	6
2022	11
2023	13
2024	7
2025	7
2026	2

TOTAL	195
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1- International Publications

N°	Année	Auteurs, (Year). Intitulé. Journal, Issues, doi.
195		Yousfi N, Boukri M, Braham M, Ait Belkacem M (2026) Buildings Seismic Functionality Assessment. : <i>Earthquake and Structures (EAS)</i> . 30(1): 101-129. DOI: https://doi.org/10.12989/eas.2026.30.1.101 . (Technopress).
194		Karim, A., Nacim, K., A, Nekmouche. , Amar, K., Mohand, H., Leyla, B., & Djamel, A. (2025). Development of a relation model for damage categorization. <i>The Eurasia Proceedings of Science, Technology, Engineering and Mathematics (EPSTEM)</i> , Vol. 38, pp. 69-80.
193	2025	.Nacim Yousfi, Mounir Ait Belkacem, Hassan Aknouche, Hakim Bechtoula, Mehdi Boukri, Abdelhalim Airouche. « Numerical assessment of seismic performance enhancement in masonry-infilled RCframes using energy-dissipating material” Journal: Advances in Concrete Construction an International journal ISSN:2287-5301(Print) 2287-531X (Online).Volume 20,N).4 octobre 2025 pp 227-238
192		Mezouar, N, Bencharif R. (2025), ‘Influence of Engineering Bedrock Depth on Seismic Site Response in Thick Firm Marl Deposits’ dans les actes de ‘International Symposium on Seismic Risk, Urbanization, and Resilience in the Western Mediterranean - 40 years after the Constantine Earthquake of October 27, 1985’, Université Mentouri de Constantine les 27 et 28 Octobre 2025.
191		Nasser Laouami. 2025. Vertical elastic response spectra for low and high seismicity regions.Bulletin of Earthquake Engineering, https://doi.org/10.1007/s10518-025-02241-7 .
190		Nasser Laouami and Abdennasser Slimani. ” Proposal of horizontal elastic response spectra for low and high seismicity regions towards the revision of Algerian seismic code”. Bulletin of Earthquake Engineering, https://doi.org/10.1007/s10518-025-0
189		Linda Chibane, Nasser Laouami , Mustapha Hellel and Mohamed Yacine Tebbouche. “ Seismicmicrozonation of urban site using the target spectral ratiomethod (THVSR): a case study of Algiers city”. Environmental Earth Sciences (2025) 84:131, https://doi.org/10.1007/s12665-025-12133-3 .
188		S. Zeroual, A. Bouchelouh , F. Kessasra et al. (2024): « Site response measurements and implications for soil deformation using geophysical and geotechnical characterization of Djen-Djen Port, Jijel, Northeast Algeria » Journal of Applied Geophysics, Volume 232 , January 2025, 105568.

187		Letif, M., Bahar, R. & Mezouar, N. Correlations Among CPT, MPT, and SPT in Clayey Soils: A Case Study from Central Northern Algeria. <i>Geotech Geol Eng</i> 43, 138 (2025). https://doi.org/10.1007/s10706-025-03099-x .
186	2024	Letif, R. Bahar and N. Mezouar , 2024, The Use of Machine Learning Models and SHAP Interaction Values to Predict the Soil Swelling Index, <i>Periodica Polytechnica Civil Engineering</i> , https://doi.org/10.3311/PPci.36880
185		Boualem, Ikhlef, Kibboua Abderrahmane , Bennacer Lyacine, Hemaïdi Zourgui Nadjib, and Kehila Fouad . (2024). "Analysis of the Seismic Fragility of Slender Piers on Prestressed Concrete Viaducts". <i>STUDIES IN ENGINEERING AND EXACT SCIENCES</i> 5 (2):e8990. https://doi.org/10.54021/seesv5n2-319 .
184		Zeroual, A. Bouchelouh , F. Kessasra et al. (2024): « Site response measurements and implications for soil deformation using geophysical and geotechnical characterization of Djen-Djen Port, Jijel, Northeast Algeria » <i>Journal of Applied Geophysics</i> , Volume 232, January 2025, 105568.
183		Bourenane H., Mezouar N. Geomorphological, hydrogeological and geotechnical characteristics of the El Kherba large, deep-seated landslide induced by the August 7th, 2020 (Mw 4.9) earthquake in the city of Mila, northeast Algeria. <i>Bull Eng Geol Environ</i> 83, 288 (2024). https://doi.org/10.1007/s10064-024-03781-z .
182		Karim, Akkouche., Aghiles Nekkrouche. , & Leyla, Bouzid. (2023). "Proposal for an inspection tool for damaged structures after disasters". <i>The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM)</i> , 26, 176-182.
181		Faouzi Gherboudj, Nourredine Mezouar, Toufiq Ouzandja, Youcef Bouhadad, Nasser Laouami (2024) ' Probabilistic seismic hazard maps and uniform hazardspectra with site effect integration for northern of algiers' <i>Natural Hazards</i> , doi.org/10.1007/s11069-02406502-7.
180		Faouzi Gherboudj, Toufiq Ouzandja, Rabah Bensalem (2024), 'Empirical spectral amplification functions using strong ground motion data and mixed effect analysis method, Application in Algeria' <i>Bulletin of Geophysics and Oceanography</i> .
179	2023	Kehila F. Khelfi M. Ait Belkacem M. (2023). "Scalar and vector-valued fragility analysis of typical Algerian RC bridge piers", <i>GRANDEVINAR</i> . 75(6), 177-186, DOI: https://doi.org/10.14256/JCE.3630.2022 .
178		Beneldjouzi, M. Hadid, N. Laouami et M. Remki (2023) "International Journal of Civil Engineering" (Springer) intitulé " <i>Analysis of Coupled Site and Soil–Structure Interaction Effects on the Seismic Response of Multistory Buildings According to EC-8and ASCE7-16 Code Provisions</i> " DOI: https://doi.org/10.1007/s40999-023-00840-6 .

177	Bourenane H. Braham M. · Guessoum N. Landslide susceptibility mapping using GIS-based statistical and machine learning modeling in the city of Sidi Abdellah, Northern Algéria. <i>Modeling Earth Systems and Environment</i> .
176	Beneldjouzi M, Remki M, Kehila F. (2023) . “ <u>Displacement-Based Methodology for Seismic Analysis of a Retrofitted Substandard Low-Rise RC Building Using Conditional Mean Spectra</u> ». <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> . DOI: 10.1007/s40996-023-01266-9 .
175	M Annad, N H Zourgui, A Lefkir, A Kibboua , O Annad, (2023). Scour-dependent seismic fragility curves considering soil-structure interaction and fuzzy damage clustering: A case study of an Algerian RC Bridge with shallow foundations, <i>Ocean Engineering</i> , Volume 275, 114157, ISSN 0029-8018,
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173	Hamid Bourenane (2023) Landslide hazard mapping using temporal probability analysis of rainfall thresholds in the city of Azazga and surrounding areas, northern Algeria. <i>Arabian Journal of Geosciences</i> (2023) 16: 592
172	Chebihi A., Dorbani S. and Laouami N. (2023) Correlation Between Ground Motion Parameters and Structural Response of Reinforced Concrete Buildings. <i>Arabian Journal for Science and Engineering</i>
171	Beneldjouzi M., Hadid M., Laouami N. and Remki M. (2023) " Frequency-domain preliminary assessment of coupled site and SSI effects according to the Algerian seismic provisions. " <i>World Journal of Engineering</i> . Emerald Publishing Limited. [DOI10.1108/WJE-07-2022-0313].
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157		Ait Benamar D, Moulouel H , Belhai D, Semmane F, Harbi A, Tebbouche MY, Boukri M , Meziani AA, Aourari S, Braham M, Machane D (2022) The 17 July 2013 Hammam Melouane earthquake: “observations and analysis of geological and seismological data. Journal of Iberian Geology . https://doi.org/10.1007/s41513-022-00187-2 (IF: 859).
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155	2021	Benfedda Amar , Serkhane Ahmed , Bouhadad Youcef , Slimani Abdennasser , Abbouda Mustafa , Bourenane Hamid . "The main events of the July–August 2020 Mila (NE Algeria) seismic sequence and the triggered landslides. <i>Arabian Journal of Geosciences</i> (2021) 14:1894.
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149	2020	Benfedda A, Bouhadad, Boughacha, Guessoum N, Abbes, Bezzeghoud M, (2020). The Oran January 9th (Mw 4.7) and June 6th, 2008 (Mw 5.4) earthquakes: Seismological study and seismotectonic implication, <i>Journal of African Earth Sciences</i> , Volume 169, 2020, 103896, ISSN 1464-343X, doi.org/10.1016/j.jafrearsci.2020.103896 .

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146	Hassan Aknouche, Abdelhalim Airouche and Hakim Bechtoula, (2020) "Influence of Earthquake Frequency Nonstationarity on Seismic Structural Response" <i>Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer</i> , 44, 603–614, https://doi.org/10.1007/s40996-020-00360-6
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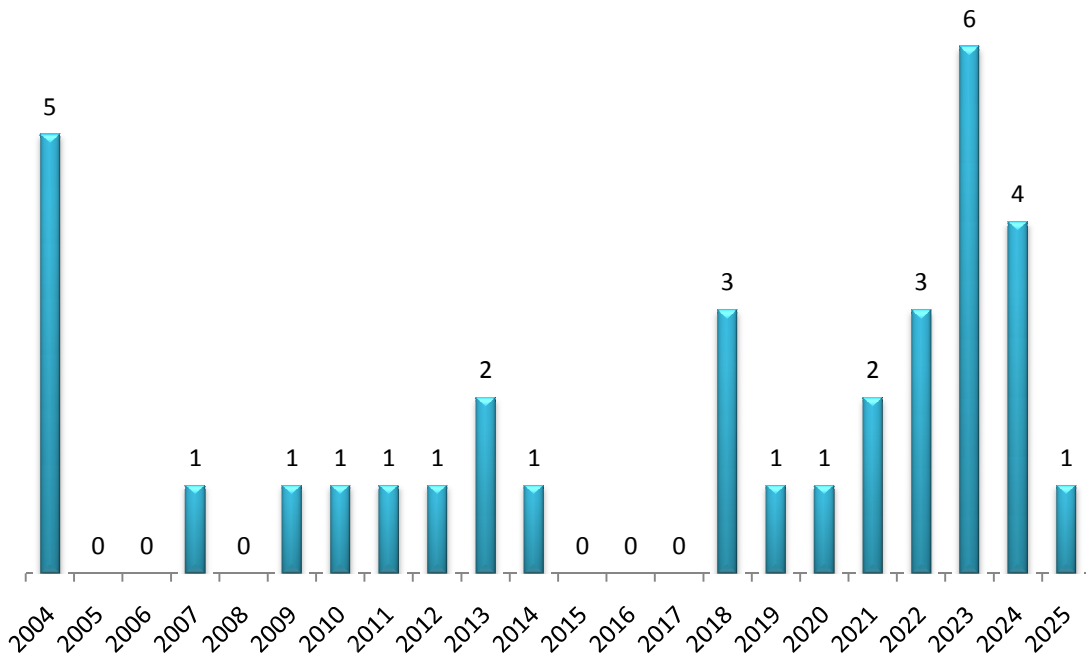
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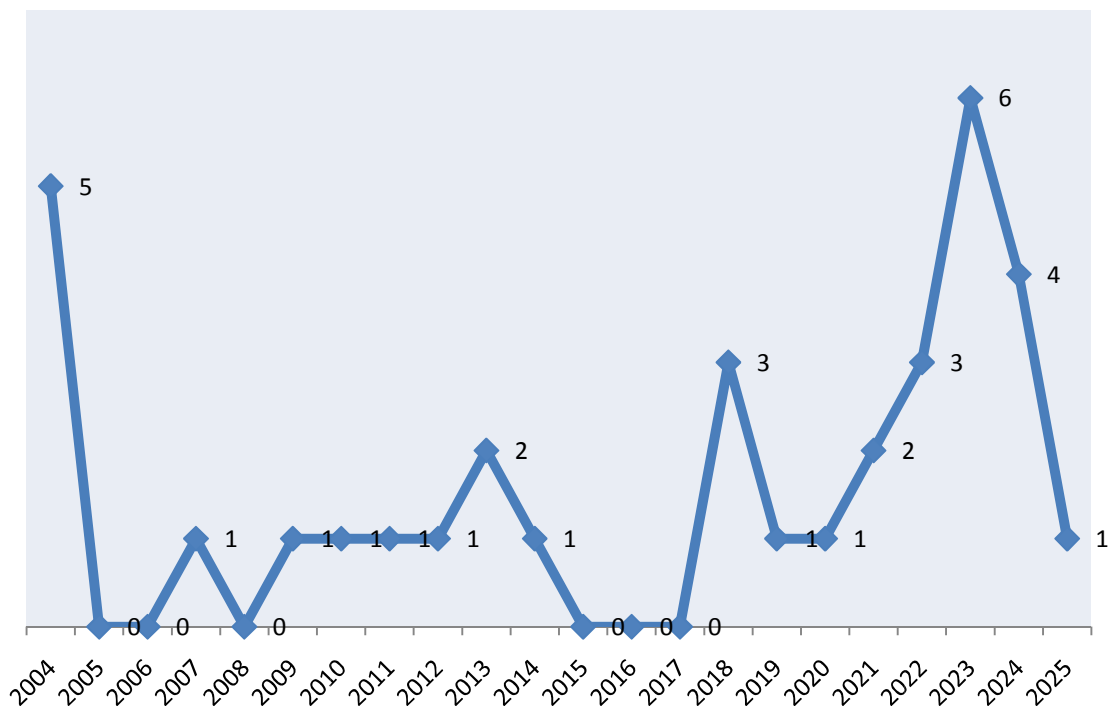
Evolution number of national publications

date	Number of publications
2004	5
2005	0
2006	0
2007	1
2008	0
2009	1
2010	1
2011	1
2012	1
2013	2
2014	1
2015	0
2016	0
2017	0
2018	3
2019	1
2020	1
2021	2
2022	3
2023	6
2024	4
2025	1

Evolution. Number of national publications



Evolution. Number of national publications



2- National Publications

N°	Année	Auteurs, (année). Intitulé. Journal, Issues, doi.
33	2025	Yousfi N, Boukri Mehdi, Ait Belkacem M (2025) Evaluation de la vulnérabilité sociale face aux séismes. <i>Algérie Equipement</i> . 73 : 42-51.
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