



CGS SCIENTIFIC PRODUCTION

(International and National Publications)

2000 – 06/30/2026

Research outcomes at the CGS during this period have resulted in:

- The publication of **195** articles in A- and B-ranked international journals, positioning our centre among the leading research institutions in Algeria (source: DGRSDT).
- The publication of **35** articles in national journals (from 2004 to June 30, 2026).

August 2026

TABLE OF CONTENTS

Introduction	1
International Publications	4
National Publications	24

Introduction

This document provides a comprehensive overview of the scientific output of the National Centre for Applied Research in Earthquake Engineering (CGS) in terms of international and national publications, covering the period from 2000 to June 30, 2026.

CGS activities focus on applied research in the following areas:

- Seismic Hazard
- Seismic Microzonation and Earthquake Engineering
- Seismic Risk Reduction Studies
- Expert Assessments
- Training

To assess the centre's scientific production over the period under review (2000 – June 30, 2026), the following indicators were selected:

1. International Publications
2. National Publications

Research outcomes at the CGS during this period have resulted in:

- The publication of **195** articles in A- and B-ranked international journals, placing our centre among the top research institutions in Algeria (source: DGRSDT).
- The publication of **35** articles in national journals (from 2004 to June 30, 2026). This figure reflects the limited number of national journals available and the absence of specialized journals in earthquake engineering.

1- International Publications

N°	Année	Auteurs, (année). Intitulé. Journal, Issues, doi.
195	2026	Hamid Bourenane, Kahina Azoug (2026) Accuracy and validation of pressuremeter tests for determining sliding surface depth in landslide-affected slopes: case study of Azazga, Algeria. <i>Arab J Geosci</i> 19, 109 (2026). https://doi.org/10.1007/s12517-026-12512-5
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		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).
192	2025	« Numerical assessment of seismic performance enhancement in masonry-infilled RCframes using energy-dissipating material” par MM.Nacim Yousfi, Mounir Ait Belkacem, Hassan Aknouche, Hakim Bechtoula, Mehdi Boukri, Abdelhalim Airouche. Journal: Advances in Concrete Construction an International journal ISSN:2287-5301(Print) 2287-531X (Online).Volume 20,N).4 octobre 2025 pp 227-238
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		Linda Chibane, ☐ Nasser Laouami , ☐ Mustapha Hellel and ☐ Mohamed Yacine Tebbouche. 2025. 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 .
189		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
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, Hemaidi 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> , <i>Volume 232</i> , 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 Nekmouche. , & 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 Algérie. Modeling Earth Systems and Environment.
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> ». Iranian Journal of Science and Technology - Transactions of Civil Engineering. 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, Ocean Engineering, Volume 275, 114157, ISSN 0029-8018,
174	Mechaala , B. Chikh, H. Bechtoula, M. Ouali and A. Nekkrouche (2023), Numerical investigation of the hysteretic response analysis and damage assessment of RC column, Advances in Computational Design, Vol. 8, No. 02, 97-112
173	Hamid Bourenane (2023) Landslide hazard mapping using temporal probability analysis of rainfall thresholds in the city of Azazga and surrounding areas, northern Algeria. Arabian Journal of Geosciences (2023) 16: 592
172	Chebihi A., Dorbani S. and Laouami N. (2023) Correlation Between Ground Motion Parameters and Structural Response of Reinforced Concrete Buildings. Arabian Journal for Science and Engineering
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. " World Journal of Engineering. Emerald Publishing Limited. [DOI10.1108/WJE-07-2022-0313].

170		Bouhadad y, Guessoum n., Benfedda A. 2023, Seismic Hazard Mapping in Northwestern Algeri., Conference: 2023 International Conference on Earth Observation and Geo-Spatial Information (ICEOGI), DOI: 10.1109/ICEOGI57454.2023.10292966 .
169		Ouzandja T, Gherboudj F and Hadid M. 2023," <i>Seismic Behavior of an Inhomogeneous poroviscoelastic Soil Profile with Spatial Variation in Soil Properties</i> ".ICCEE2023, 1st International Conference on Civil and Earthquake Engineering,Annaba, Algeria. December 12-14, 2023.
168		Nekmouche A, AkkouchéK, Ouzandja T, Bouzid L, Remki M. 2023," <i>Assessment of Plastic Hinges Models for the Prediction of RC/Frame Structures Behavior</i> ".ICCEE2023, 1st International Conference on Civil and Earthquake Engineering, Annaba, Algeria. December 12-14, 2023.
167		Benfedda A.,Abbes K., Ayadi A, Maouche S., Bouhadad Y., Boughacha M.S.Bezzeghoud M. 2023, Source rupture process of the March 18th, 2021, Mw6.0 Béjaia (Algeria) earthquake associated with the Western segment – A link with the August 1856 Djidjelli earthquakes ($I_0 = \text{VIII-IX}$, $M \geq 6$), Physics of the Earth and Planetary Interiors Volume 345, December 2023, 107115, https://doi.org/10.1016/j.pepi.2023.107115 .
166	2022	Bourenane H, Bensalem R, Oubaiche, Braham M, Meziani A.A, Tebbouche M.Y (2022) The large deep-seated landslide induced by the march 12th, 2012 rainfall event in the city of Azazga, Northern Algeria: Deformation characteristics and failure mechanisms. Environmental Earth Sciences 81, 476 (2022). https://doi.org/10.1007/s12665-022-10612-5
165		Massinissa Braham, Abdelmadjid Boufekane, Hamid Bourenane, Baya Nait Amara, Rabah Bensalem, El Hadi Oubaiche & Youcef Bouhadad (2022) Identification of groundwater potential zones using remote sensing, GIS, machine learning and electrical resistivity tomography techniques in Guelma basin, northeastern Algeria, Geocarto International, DOI: 10.1080/10106049.2022.2063408
164		Bedr S., Dufour N., Javelaud E., Lenti L., Régnier J., Simon C. (2022) A new geotechnical database for dynamic soil properties Considering Resonant Column and Cyclic Triaxial Tests performed in France, Research Report, Project SIGMA2-2021-D4-083.

163	Dalila Ait Benamar · Hakim Moulouel · Djelloul Belhai · Fethi Semmane · Assia Harbi · Mohamed Yacine Tebbouche · Mehdi Boukri · Abdelghani Aghiles Meziani · Sahra Aourari · Massinissa Braham Djamel Machane "The 17 July 2013 Hammam Melouane earthquake: observations and analysis of geological and seismological data" Journal of Iberian Geology. https://doi.org/10.1007/s41513-022-00187-228 July 2020
162	Belhamdi, N., Kibboua, A., and Tahakourt, A. (2022). "Seismic vulnerability assessment of existing private RC constructions in northern Algeria". <i>Earthquake and Structures</i>. Vol.22, N°.1, pp. 25-38. DOI : : https://doi.org/10.12989/eas.2022.22.1.025
161	Boussa, Leila, Mohamed Chemrouk, Abdelmadjid Si Salem, et Aghiles Nekmouche. (2022). « Seismic reduction factor of reinforced concrete framed structures ». <i>Asian Journal of Civil Engineering</i> 23 (2): 153-71. https://doi.org/10.1007/s42107-021-00412-w.
160	Ait Benamar D: publication internationale dans la revue : Journal of Iberian Geology, intitulée : The 17 July 2013 Hammam Melouane earthquake: observations and analysis of geological and seismological data.
159	M. Benziane, N. Della, S. Bedr (2022), Mechanical behavior of bio-cemented silty sand, Arabian Journal of Geosciences, Volume 15(Issue 7) DOI: 10.1007/s12517-022-09776-y.
158	Boukri M, Farsi MN, Mébarki A (2022) <i>Rapid earthquake loss estimation model for Algerian urban heritage: case of Blida city</i>. International Journal of Architectural Heritage, Taylor and Francis. https://doi.org/10.1080/15583058.2021.1958394 (IF: 2.580).
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. <i>Journal of Iberian Geology</i>. https://doi.org/10.1007/s41513-022-00187-2 (IF: 859).

156		Serkhane A.; Benfedda A. , Guettouche M., Bouhadad Y. (2022) ."InSAR derived co-seismic deformation triggered by the Mihoub (Tell Atlas of Algeria) 28 May, 2016 (Mw = 5.4) earthquake combined to geomorphic features analysis to identify the causative active fault" Journal of African Earth Sciences, DOI: 10.1016/j.jafrearsci.2022.104476
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. Arabian Journal of Geosciences (2021) 14:1894.
154		Bourenane, H.; Braham M.; Bouhadad Y.; Meziani A. A. , (2021), Spatial distribution, controlling factors and failure mechanisms of the large-scale landslides in the urban area of Azazga city (northern Algeria), Environmental Earth Sciences, 80:313 https://doi.org/10.1007/s12665-021-09607-5
153		Bourenane, H. and Bouhadad Y. (2021), Impact of Land use Changes on Landslides Occurrence in Urban Area: The Case of the Constantine City (NE Algeria), Geotech Geol Eng https://doi.org/10.1007/s10706-021-01768-1
152		Yousfi N., Bensaïbi M., Guessoum N., Boukri M. (2021). Seismic Scenario of Algiers city: Case Study of Strengthened Masonry (SM) Buildings, Structural Engineering international (SEI), https://doi.org/10.1080/10168664.2021.1872465
151		Kehila, F., Remki, M., Kibboua, A., Bechtoula, H. (2020). Developing seismic fragility curves for existing reinforced concrete structures in Algeria. Proceedings of the Institution of Civil Engineers - Structures and Buildings, 1–38. doi: https://doi.org/10.1680/jstbu.19.00142
150	2020	Rania Souici, Yamina Ait Meziane and Benouar Djillali, (2021), Identification of vibration direction of existing buildings using ambient vibration noise tests, Arabian journal of geosciences, 14, doi.org/10.1007/s12517-020-06306-6
149		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, Journal of African Earth Sciences, Volume 169, 2020, 103896, ISSN

148	A. Messaoudi, N. Mezouar, N. Laouami and M. Hadid (2020), Topographic effects on seismic responses of steep sloped superficially weathered rock: the case of ‘Rocher Noir’ at Boumerdes city in Algeria, Journal of Seismology, https://doi.org/1007/s10950-020-09958-9
147	Bourenane H., Bouhadad Y, (2020) Spatial analysis, assessment and mapping of flood hazard in the alluvial plains of Boumerzoug and Rhumel (city of Constantine, north-eastern Algeria): application to development and urban planning projects. Bull. Eng Geol. Environ., doi.10.1007/s10064-017- https://doi.org/10.1007/s10064-020-01980-y
146	Hassan Aknouche, Abdelhalim Airouche and Hakim Bechtoula, (2020) "Influence of Earthquake Frequency Nonstationarity on Seismic Structural Response" Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer, 44, 603–614, https://doi.org/10.1007/s40996-020-00360-6
145	Moulouel, H., Bouchelouh, A., Bensalem, R. et al. The Mahelma fault: a secondary structure of the Sahel anticline?. Arab J Geosci 13, 715 (2020). Doi : 10.1007/s12517-020-05694-z.
144	Nasser Laouami. 2020. Proposal for a new sie classification tool using microtremor data. Bulletin of Earthquake Engineering. https://doi.org/10.1007/s10518-020-00882-4 .
143	Mounir Ait Belkacem, Hakim Bechtoula, Nouredine Bourahla, Adel Ait Belkacem, (2020) "Damage index for reinforced concrete columns", GRAĐEVINAR 72 (2020) 2, 139-149, DOI: https://doi.org/10.14256/JCE.2626.2019

142		Hamal Sofiane, Nouredine Bourahla and Nasser Laouami. 2020. Engineering Journal 6(6):1124-1135. DOI: 10.28991/cej-2020-03091534
141		R. Bencharif, M. Hadid and N. Mezouar, (2020) Hybrid BEM-TLM-PML method for the dynamic impedance functions calculation of a Engineering Analysis with Boundary Elements Journal, https://doi.org/10.1016/j.enganabound.2020.03.001
140		Moulouel, H., Bouchelouh, A., Bensalem, R., Tebbouche, M. Y., Ait Benamar, D. A., Oubaiche, E. H., & Benamghar, A. (2020). The Mahelma fault: a secondary structure of the Sahel anticline?. <i>Arabian Journal of Geosciences</i> 13(15), 1-15
139		Y. MEHANI, A. KIBBOUA, C. BENAZOUZ, M. REMKI, (2020). nonlinear static and dynamic analyses" DOI: https://doi.org/10.14256/JCE.2122.2017 , GRAĐEVINAR 72 7, 617-626.
138	2019	Abbes K., Dorbath, C., Dorbath, L., Bouhadad Y., Oussadou F., Bezzeghoud M., (2019), Revisiting the Laalam (Eastern Algeria) March 20, 2006 (Mw 5.1) earthquake and its seismotectonic implication, Pure
137		Bourenane Hamid, Bouhadad Youcef, Guettouche Mohamed Said (2019) Flood hazard mapping in urban area using the hydrogeomorphological approach: case study of the Boumerzoug and Rhumel alluvial plains (Constantine city, NE Algeria). <i>Journal of African Earth Sciences</i> .
136		Nasser Laouami. 2019. Vertical ground motion prediction equations and vertical-to-horizontal (V/H) ratios of PGA and PSA for Algeria and surrounding region. <i>Bulletin of Earthquake Engineering</i> . 17:3637–
135		AKNOUCHE Hassan, AIROUCHE Abdelhalim and BECHTOULA Hakim, (2019) "Effect of Masonry Infilled Panels on the Seismic Performance of a R/C Frames" <i>Earthquakes and Structures</i> , Vol. 16, No. 2, pp. 230-249. DOI: 10.12690/ees-2019-16-2-230
134		Maouche S., Bouhadad Y., Harbi A., Rouchiche Y., Oussadou F., Ayadi A. (2019) Active tectonics and Seismic hazard in the Tell Atlas of Algeria. Chapter in "Geology of the Arab World" Springer
133		Abbouda M.; Maouche S. , Bouhadad Y., Belhai D., (2019) Neotectonics and active tectonics of the Dahra- Lower Cheliff Basin (Tell Atlas, Algeria): Seismotectonic implication, <i>Journal of African Earth Sciences</i> 152 (2019) 350-367
132		Bufoin E.; Coca, P.; Bezzeghoud M.; Udias, A.; Bouhadad Y.;

		Mattesini M.(2019), The destructive 1790 Oran (NW Algeria)
--	--	--

		earthquake in a region of low seismicity; Tectonophysics, https://doi.org/10.1016/j.tecto.2019.03.008 .
131		Nait Amara B, Aissa D. E, Maouche S, Braham M, Machane D, & Guessoum N, (2019). Hydrothermal alteration mapping and structural Landsat-8 data. Arabian Journal of Geosciences, 12(3), 94. https://doi.org/10.1007/s12517-019-4224-4
130		Ait Belkacem M , Bechtoula H, Bourahla N, Ait Belkacem A, (2019). Effect of axial load and transverse reinforcements on the seismic performance of reinforced concrete columns”, Frontiers of Structural and Civil Engineering Journal, DOI: https://doi.org/10.1007/s11709-
129	2018	Nasser Laouami, Mohamed Hadid, Noureddine Mezouar. 2018. Proposal of an empirical site classification method based on target simulated horizontal over vertical spectral ratio. Bulletin of Earthquake Engineering 16:5843–5874 doi.org/10.1007/s10518-018-0420-v
128		Bouchelouh, A., Bensalem, R., Zaourar, N., Machane, D., Moulouel, H., Oubaiche, E.H. (2018) The Miocene Roof Mapping Using Microtremor Recording and Electrical Survey Method in Blida City, Algeria. Pure Appl. Geophys. 175, 287–301 (2018). https://doi.org/10.1007/s00024-017-1684-x
127		Guessoum, N.; Benhamouche, A.; Bouhadad, Y.; Bourenane, H.; Abbouda, M.(2018), Field evidence of Quaternary seismites in the Mostaganem-Relizane (western Algeria) region: seismotectonic implication, Arabian Journal of Geosciences, 1-13, doi
126		M. A. Benbouras, R. Kettab Mitiche, H. Zedira, A. I. Petrisor, N. Mezouar, F. Debiche, (2018) A new approach to predict the compression index using artificial intelligence methods, Marine Georesources & Geotechnology, https://doi.org/10.1080/1064119x.2018.1484533
125		Benkaci N., E. H. Oubaiche, J. L. Chatelain, R. Bensalem, D. Benouar and K. Abbes. (2018), Non-Stability and Non-Reproducibility of Ambient Vibration HVSF Peaks in Algiers (Algeria). November 2018, Journal of Earthquake Engineering, DOI:10.1080/13622460.2018.1527002
124		Samia Louadj, Ramdane Bahar and Nasser Laouami. 2018. Numerical Analysis of Keddara Dam under Seismic Motion. International Journal of Engineering Research in Africa. 40:47-62
123		Abbouda, M.; Bouhadad, Y.; Benfedda, A.; Slimani, A. (2018), Seismotectonic and seismological aspects of the Mostaganem (Western Algeria) May 22, 2014 (Mw 4.9) seismic event Arab.J.Geosci.11,57 (DOI 10.1007/s12517-018-3404-v)

122		S. Bedr, N Mezouar, L Verrucci, G. Lanzo, (2018) Investigation on shear modulus and damping ratio of Algiers marls under cyclic and dynamic loading conditions https://doi.org/10.1007/s10064-018-1310-x
121		Airouche H., Aknouche H., Bechtoula H. and Mezouar N., (2018) "Performance of the CGS six DOF shaking table on the harmonic signal reproduction", Periodica Polytechnica Civil Engineering Journal, Vol. 62, N°. 1, 102-111. DOI: https://doi.org/10.3311/PPci.9033 , ISSN:0553-6626.
120		Nasser Laouami, Abdennasser Slimani, Said Larbes, 2018, Ground motion prediction equations for Algeria and surrounding region using site classification based. H/V spectral ratio. Bulletin of Earthquake Engineering. 16:2653–2684. doi.org/10.1007/s10518-018-0310-3
119		Kibboua A., Kehila F, Zourgui NH, Remki M. (2018), "Ductility-Based Seismic Vulnerability Assessment of RC Bridge Piers", H. Rodrigues and A. Elnashai (Eds.): GeoMEast 2018, SUCI, pp. 307–323. Doi: https://doi.org/10.1007/978-3-030-01932-7_24
118		Mustapha Remki, Benazouz Chikh, Abderrahmane Kibboua, Fouad Kehila, Youcef Mehani et Boubakeur Fettar (2018) « Seismic Vulnerability and Damage Assessment of an Existing URM Building». Iranian Journal of Science and Technology Transactions of Civil Engineering. https://doi.org/10.1007/s40996-018-0187-z
117		Kehila F, Kibboua A, Bechtoula H, Remki M (2018) Seismic performance assessment of R.C. bridge piers designed with the Algerian seismic bridges regulation. Earthquakes and Structures 15 (6):701-713. doi: https://doi.org/10.12989/eas.2018.15.6.701
116		N. Hemaidi-Zourgui, A. Kibboua, M. Taki (2018). Using full bridge model to develop analytical fragility curves for typical concrete bridge piers. <i>Gradovinar</i> 70 (6/2018) DOI: 10.14256/ica.2137.2017
115		Benazouz Chikh, Mustapha Remki, Abdelkader BENYUCEF, Youcef MEHANI, Mohamed HADID and Abdelmounaim MECHAALA, Approach and Applications".. Iranian Journal of Science and Technology Transactions of Civil Engineering. https://doi.org/10.1007/s40996-018-0187-z .
114		Boukri M, Farsi MN, Mébarki A, Belazougui M, Ait-Belkacem M, Yousfi N, Guessoum N, Ait-Benamar D, Naili M, Mezouar N, Amellal O. (2018). Seismic vulnerability assessment at urban scale: Case of Algerian buildings. <i>International Journal of Disaster Risk Reduction</i> ,

113		Ait Belkacem M , Bechtoula H, Bourahla N, Ait Belkacem A, (2018). Confined length of reinforced concrete columns at various axial load
112		Yamina Ait Meziane, Rania Souici and Farah Lazzali, (2018), Relevant lessons learned from the earthquake El Asnam, 10/10/1980 and MATECWeb of Conferences 149, 02040(2018)doi.org/10.1051/matecconf/201814902040.
111		Yamina Ait Meziane, Guessoum Nabila, Bouziane Djillali, Abbas Khadidja, (2018), Impact on the dynamic characteristics of reinforced Significant Applications of Geophysical Methods, Advances in Science, Technology and Innovation, doi.org/10.1007/978-3-030-01656-2_44.
110	2017	A. Messaoudi, N. Laouami and N. Mezouar, (2017) Slopetopography-induced spatial variation correlation with observed building damages in Corso during the May 21, 2003, Mw 6.8, Boumerdes earthquake (Algeria),. Journal of Seismology. doi:10.1007/s109500169627-z
109		Harbi A., A. Sebaï, Y. Rouchiche, S. Maouche, F. Ousadou, K. Abbas, D. Ait Benamar, M. Benmedjber (2017), Reappraisal of the Seismicity of the Southern Edge of the Mitidja Basin (Blida Region, North Central Algeria). <i>Journal of Seismology</i> . DOI 10.1007/s109500169627-z
108		Bourenane Hamid, Bouhadad Youcef, Tas Mohamed (2017) Liquefaction hazard mapping in the city of Boumerdès, Northern Algeria. <i>Bulletin of Engineering Geology and the Environment</i> . DOI 10.1007/s12511-017-0170-7
107		Meziani B., Machane D., Bendaoud A., Cheikh Lounis G., Oubaiche E., Chabane S., Bensalem R., Moulouel H. (2017). Geotechnical and geophysical characterization of the Bouira-Algiers Highway (Ain Turck, Algeria) landslide. <i>Arab. J. Geosci.</i> DOI 10.1007/s12511-017-0170-7
106		Mohamed Beneldjouzi, Nasser Laouami and Abdennasser Slimani. 2017. Numerical and random simulation procedure for preliminary local site characterization and site factor assessing. <i>Earthquakes and Structures</i> 12, 1, 70-87. DOI: 10.12080/eqs.2017.12.1.070
105		Moulouel, H., Bensalem, R., Machane, D., Bendaoud, A., Gharbi, S., Oubaiche, E., Ousalem, H., and Skendri, W. (2017). High Resistant Sand Injected Marl and Low Resistant Damaged Marl to Locate and Characterize the Thénia Fault Zone in Boumerdes City (North-Central

104		Bourenane Hamid, Guettouche Mohamed Said, Bouhadad Youcef, Braham Massinissa (2017) A GIS-Based Landslide Hazard Mapping in the City of Constantine, Northeast Algeria. Advancing Culture of Living with Landslides, Volume 2, Advances in Landslide Science(WLF 2017). Springer, Cham. Pages 1101-1109. https://doi.org/10.1007/978-3-
103		Bensalem, R., Chatelain, JL., Machane, D., Oubaiche, E.H., Bouchelouh, A., Benkaci, N., Moulouel, H., Chabane, S., Hellel, M. (2017) Mediterranean Sea and anthropogenic influences on ambient vibration amplitudes in the low-frequency and high-frequency domains in the Algiers region. Arab J Geosci 10, 282 (2017).
102		Benfedda A, Abbes K, Bouziane D, Bouhadad Y, Slimani A, Larbes S, Haddouche D, Bezzeghoud M. (2017), The August 1st, 2014 (Mw 5.3) Algiers (Algeria). Pure Appl Geophys 174(3):1503–1511. https://doi.org/10.1007/s00024-017-1481-6
101		Tebbouche, M. Y., Machane, D., Chabane, S., Oubaiche, E. H., Meziani, A. A., Ait Benamar, D., & Bendaoud, A. (2017). Imagery of the metamorphic bedrock roof of the Sahel active fault in the Sablettes (Algiers) reclaimed area by ambient vibration HVSR. <i>Arabian Journal of</i>
100		Chabane, S., Machane, D., Tebbouche, M. Y., Khaldouy, F., Oubaiche, E. H., Bensalem, R., & Mariscal, A. (2017). Ambient seismic vibration analysis and ground characterization in the vicinity of Algiers seismic zone. <i>Arabian Journal of Geosciences</i> , 10(3), 69.
99		Benazouz Chikh, Ahmed Mebarki, Nacer Laouami, Moussa Leblouba, Youcef Mehani, Mohamed Hadid, Abderrahmane Kibboua deformation ratios: a theoretical approach". Earthquakes and Structures, Vol. 12, No. 4 (2017) 000-000 DOI: 10.12989/eas.2017.12.4.000 000
98		M. Remki, A. Kibboua, D. Benouar, F. Kehila (2017). Seismic Fragility Evaluation of Existing RC Frame and URM Buildings in Algeria. Int J Civ Eng 16 (7) 845-856 DOI 10.1007/s40999-017-0222-7
97		A. Kibboua, F. Kehila, N. Hemaidi-Zourgui, M. Remki (2017). "Comparison between fragility curves of RC bridge piers designed by old and recent Algerian codes". <i>Eurasian J. Eng. Sci. Technol</i> , 1(2), 56-
96		Remki M, Kehila F (2017) Analytically Derived Fragility Curves and Damage Assessment of Masonry buildings. In: Rodrigues H, Elnashai Cham,. Springer International Publishing, pp 42-54, doi: https://doi.org/10.1007/978-3-319-61914-9_4

95		Kehila F, Remki M, Kibboua A. (2017), "Seismic Assessment of Algerian Bridge", H. Rodrigues and A. Elnashai (Eds.): GeoMEast 2017, Facing the Challenges in Structural Engineering, Sustainable
94		Abdelkader BENYOUNEF, Moussa Leblouba and Ali ZERZOUR, "Stiffness and energy dissipation of Oval Leaf Spring mounts under unidirectional line loading". International Journal on Mechanical Sciences and Engineering Applications, Vol. 18, Number 4, DOI:10.1051/meca/2017012, 2017.
93		Benazouz CHIKH, Ahmed MEBARKI, Nacer LAOUAMI and Youcef MEHANI, " Inelastic deformation ratio for seismic demands assessment of structures". Procedia Engineering, 199 (2017), 558-563,
92		CHIKH B., MEBARKI A., LEBLOUBA M., MEHANI Y., KIBBOUA A., HADID M. and BENOUEAR D, " Seismic structural demands and inelastic deformation ratios: Sensivity analysis and simplified models". Earthquakes and structures, International Journal, 13(1), 59-66, 2017. Vol. 12, N 4, 397-407. DOI: https://doi.org/10.12989/eas.2017.12.4.397
91		Benazouz CHIKH, Youcef MEHANI, Mohamed HADID, Abdelmadjid BOUBAYA, Ibrahim BERRA, " Approximate Multimodal Dynamic Analysis to Estimate the Seismic Demands of Structures". Sustainable Civil Infrastructures, pp 170-179, 2017. SPRINGER.
90		Boukri M, Farsi MN, Mébarki A, Belazougui M, Amellal O, Guessoum N, Mezazigh B. (2017). Seismic vulnerability appraisal according to the Algerian building context. In: Ivorra Chorro S, Brebbia CA (eds.) Earthquake Resistant Engineering Structures XI, WIT Transactions on the Built Environment, Great Britain (UK), 172: 109-117. doi:10.2495/ERES170101.
89		YOUSFI N., BENSABIBI M., Weighting Assessment of Vulnerability Engineering international (SEI), 27 79-87, 2017, https://doi.org/10.2749/101686617X14676303589435
88		Lillouch Samir, Ait Meziane Yamina et Bendadouche Hocine, (2017), Geotechnical cartographic synthesis of Bejaia city, North East of Algeria, Journal of the geological Society of India, Vol.91, doi:
87	2016	A. Ahmed-chaouch, H. Bechtoula, A. Bali, (2016) "A Comparative Numerical Study on Shear Stress Variation of an L Shaped RC Wall With and Without Corner Column" WULFENIA Journal, Vol. 23, N°
86		Boukhedimi, M.A., Louni-Hacini, A.; Bouhadad Y.; Ritz, J.F., Machane, D.; Benhamouche, A., Bourenane, H. (2016), Evidence of seismites in coastal Quaternary deposits of western Oranie (Northwestern

		Algeria), Journal of Seismology.
85		Bourenane Hamid, Guettouche Mohamed Said, Bouhadad Youcef, Braham Massinissa (2016) Landslide hazard mapping in the Constantine city, Northeast Algeria using frequency ratio, weights factor, logistic regression, weights of evidence, and analytical hierarchy process methods. Arabian Journal of Geoscience, DOI 10.1007/s12517-015-2222-8.
84		Guillier, B., Chatelain, JL., Perfettini, H., Oubaiche, EH., Voisin, C., Bensalem, R., Machane, D., Hellel, M. (2016) Building frequency fluctuations from continuous monitoring of ambient vibrations and their relationship to temperature variations. Bull Earthquake Eng 14, 2213–2227 (2016). https://doi.org/10.1007/s10518-016-9901-z
83		Mustapha Remki, Fouad Kehila, Hakim Bechtoula and Abdelkrim Bourzam (2016), “ Seismic Vulnerability assessment of composite Techno-Press., Volume 11, N°.02, 371-386. pp DOI:10.12989/eas.2016.11.2.371 (Août 2016).
82		Chikh Benazouz, Mehani Youcef and Leblouba Moussa. (Août 2016). "Simplified procedure for seismic demands assessment of structures". Structural Engineering and Mechanics. 59(3):455-473. Publication Internationale: dans la revue « EARTHQUAKE AND STRUCTURES-TECHNO PRESS », Août 2016.
81		El Hadi Oubaiche, Jean-Luc Chatelain, Mustapha Hellel, Marc Wathelet, Djamel Machane, Rabah Bensalem, Abderrahmane Bouguern Transfer Function: Some Experimental Results. <i>Seismological Research Letters</i> 2016; 87 (5): 1112–1119. https://doi.org/10.1785/0220160113
80		Mohamed Adel Souami, Mohamed Salah Zeroula, Yamina Ait Meziane, (2016), The impact of buildings proportions in the preservation of the architectural heritage of Algiers against the seismic hazards, Journal of Cultural Heritage, doi 10.1016/j.culher.2016.02.006.
79	2015	Beneldjouzi Mohamed and Laouami Nasser. 2015, A Stochastic based approach for a new site classification method: Application to the Algerian seismic code. Earthquake Engineering and Engineering Vibration, 14: 663-681, DOI: 10.1007/s11803-015-0052-z.
78		Laib Abdelghani, Laouami Nasser and Abdennasser Slimani, 2015. Modeling of soil heterogeneity and its effects on seismic response of multi-support structures. Earthquake Engineering and Engineering Vibration, Volume 14, Issue 3, pp 423-437. DOI 10.1007/s11803-015-

77		Moulouel H., Micarelli L., Moretti I. & Machane D. (2015). Fracturing of carbonate rocks in the Agion active normal fault zone (Greece) from a borehole cores: implications for fluid transfer properties. Bull. Soc. géol. Fr., 186 (4), 59-91. DOI: 0.2113/gssgfbull.186.6.387.
76		Abbes K., L. Dorbath, C. Dorbath, M. Djeddi, F. Ousadou, S. Maouche, N. Benkaci, A. Slimani, S. Larbes, D. Bouziane. (2015), The Beni Haoua, Algeria, Mw 4.9 earthquake: source parameters, engineering, and seismotectonic implications. December 2015, Journal of Seismology 20(2). DOI 10.1007/s10950-015-9549-1
75		Hakim BECHTOULA, Susumu KONO, Fumio WATANABE, Youcef MEHANI, Abderrahmane KIBBOUA and Mounir NAILI, (2015) "Performance of HSC Columns Under Severe Cyclic Loading" Bulletin of Earthquake Engineering, BEE, Springer, Volume 13, Issue 2, pp.503-538, DOI 10.1007/s10518-014-9617-x, ISSN 1570-761X.
74		REMKI M, Kehila F, Bechtoula hakim and Bourzam M. (2015) «Seismic Vulnerability Assessment of Composite RC-Masonry Building» Earthquake and Structures Journal Techno Press
73		Kehila F, Bechtoula H, Benaouar D (2015) Influence of axial load and loading path on the performance of R.C. bridge piers. Computers and Concrete 15 (4):563-588 doi: https://doi.org/10.12989/cac.2015.15.4.563
72		A. Ahmed-chaouch, R. Boutemour, H. Bechtoula, A. Bali, (2015) "Numerical study on shear stress variation of RC wall with L shaped section" Periodica Polytechnica Civil Engineering Journal, Volume 59, Issue 1, pp. 15-25, Doi: 10.3311/PPci.7575, ISSN: 0553-6626.
71	2014	Bourenane Hamid, Bouhadad Youcef, Guettouche Mohamed Said, Braham Massinissa (2014) GIS-based landslide susceptibility zonation using bivariate statistical and expert approaches in the city of Constantine (Northeast Algeria). Bulletin Engineering Geology and Environment. DOI 10.1007/s10064-014-0616-6
70		Berkane, H. D., Khellafi, A. M., Harichane, Z., & Kouici, W. (2014). Stochastic study of the spatial variation of ground response spectrum. Electron J Geotech Eng 19(Bund. S): 4345-4361
69		Abdelhalim AIROUCHE, Hakim BECHTOULA, Hassan AKNOUCHE, Bradford K.Thoen and Djillali Benouar, (2014) "Experimental Identification of the Six DOF C.G.S., Algeria, Shaking Table System ", Journal of Smart Structures and Systems, SSS, Vol. 13 N°. 1, pp. 137-154, DOI http://dx.doi.org/10.12989/sss.2014.13.1.137, ISSN 1738-1584.
68		M. Boukri, M.N. Farsi, A. Mébarki, M. Belazougui, O. Amellal, B. Mezazigh, N. Guessoum, H. Bourenane, A. Benhamouche (2014), Seismic risk and damage prediction: case of the buildings in Constantine city (Algeria), Bulletin of Earthquake Engineering, DOI 10.1007/s10518-014-9594-0.

67		Kibboua, H. Bechtoula, Y. Mehani, M. Naïli, (2014) « Vulnerability assessment of reinforced concrete bridge structures in Algiers using scenarios earthquakes », <i>Bulletin of Earthquake Engineering</i> , DOI
66		Remki M. and BENOUAR D. (2014), “Damage potential and vulnerability functions of strategic buildings in the city of Algiers”.
65		Boukri M, Farsi MN, Mébarki A, Belazougui M, Amellal O, Mezazigh B, Guessoum N, Bourenane H, Benhamouche A. (2014). Seismic risk and damage prediction: case of the buildings in Constantine city (Algeria). <i>Bulletin of Earthquake Engineering</i> , Springer, 12(6): 2683-
64		Mébarki A, Boukri M, Laribi A, Farsi MN, Belazougui M, Kharchi F. (2014). Seismic vulnerability: theory and application to Algerian buildings. <i>Journal of Seismology</i> , Springer, 18(2): 331-343. DOI: https://doi.org/10.1007/s10950-013-9377-0
63		Boukri M, Farsi MN, Mébarki A, Belazougui M. (2014). Earthquake Damage Assessment: Theoretical Framework and Application to the Algerian building Case. <i>WIT Transaction on Information and Communication Technology</i> , 47: 153-164. DOI: 10.2495/RISK140141
62		Hassan AKNOUCHE, Hakim BECHTOULA, Abdelhalim AIROUCHE and Djillali Benouar, (2014) " Investigation on the Performance of the Six DOF C.G.S., Algeria, Shaking Table ", <i>Earthquakes and structures Journal</i> , EAS, Vol. 6 N°. 5, pp. 539-560, DOI: http://dx.doi.org/10.12989/eas.2014.6.5.539 , ISSN 2092-7614.
61	2013	Nasser Laouami, and Abdennasser Slimani. 2013. Earthquake Induced Site Effect in the Algiers–Boumerdes Region: Relation Between Spectral Ratios Higher Peaks and Observed Damage During the May
60		Lahlou Haderbaché and Nasser Laouami. 2013. A new rapid approach in assessing slope stability beneath a random field. <i>Indian Journal of</i>
59		Bouhadad, Y.,(2013), Occurrence and impact of characteristic earthquakes in Algeria, <i>Natural hazard journal</i> DOI 10.1007/s11069-
58		Gherboudj, F. Laouami, N. Scalar and vector probabilistic seismic hazard analysis: application for Algiers City. (2013), <i>J. of Seismol</i> , DOI

57		Benhamouche, A., Nedjari, A., Bouhadad, Y., Machane, D., Oubaiche, E.H., Sidi Said, N. (2013), Field evidence of seismites in Quaternary deposits of the Jijel (Eastern Algeria) coastal region. <i>Journal of Seismology</i> , DOI 10.1007/s10950-013-9384-1
56		Youcef MEHANI, Hakim BECHTOULA, Abderrahmane KIBBOUA, Mounir NAILI, (2013) " Damage quantification of steel moment resisting frames using ductility parameters" <i>Journal of Korean Society of Civil Engineering</i> , KSCE <i>Journal of Civil Engineering</i> , Vol. 17, N°. 6, pp. 1394-1402, ISSN 1226-7988.
55		Boukri, M., Farsi, M. N., Mébarki, A. and Belazougui, M. (2013), "Development of an integrated approach for Algerian building seismic damage assessment", <i>Journal of Structural Engineering and Mechanics</i> , 47(4), 471-493, DOI: http://dx.doi.org/10.12989/sem.2013.47.4.471 .
54		Mébarki, A., Boukri, M., Laribi, A., Farsi, M. N., Belazougui, M. and Kharchi, F. (2013), "Seismic vulnerability: theory and application to Algerian buildings", <i>Journal of Seismology</i> , DOI 10.1007/s10950-013-
53		Youcef MEHANI, Hakim BECHTOULA, Abderrahmane KIBBOUA, Mounir NAILI, (2013) "Assessment of Seismic Fragility Curves for Existing RC Buildings in Algiers after the 2003 Boumerdes Earthquake" <i>Journal of Structural Engineering and Mechanics</i> , SEM, Vol. 46, N°. 6, pp. 791-808, ISSN 1225-4568.
52	2012	Hellel M., E.H. Oubaiche, J.-L. Chatelain, D. Machane, R. Bensalem, B. Guillier and G. Cheikhounis, 2012. Basement Mapping with Single-Station and Array Ambient Vibration Data: Delineating Faults under Boumerdes City, Algeria, <i>Seism. Res. Lett.</i> , 83, 5, 798-805. doi:
51		El Hadi Oubaiche, Jean Luc Chatelain, Abderrahmane Bouguern, Rabah Bensalem, Djamel Machane, Mustapha Hellel, Fatma Khaldou, Bertrand Guillier (2012) Experimental Relationship Between Ambient Vibration H/V Peak Amplitude and Shear-wave Velocity Contrast. <i>Seismological Research Letters</i> 2012; 83 (6): 1038–1046. https://doi.org/10.1785/0220120004
50		A. Meslem, F. Yamazaki, Y. Maruyama, D. Benouar, A. Kibboua, Y. Mehani (2012). The Effects of Building Characteristics and Site Algeria Earthquake. <i>Earthquake Spectra</i> 28(1):185-216. DOI: 10.1193/1.3675581
49		Rafik TALEB, Hakim BECHTOULA, Masanobu SAKASHITA, Noureddine BOURAHILA and Susumu KONO, (2012) "Investigation of the Shear Behaviour of Multi-Story Reinforced Concrete Walls with Eccentric Openings" <i>Journal of Computer and Concrete</i> , CAC, Vol. 10, N°. 4, pp. 343-359, ISSN 1598-8198.

48		Yamina Ait Méziane ¹ , Essaid Djakab ² , D. Benouar and I.I. ESAT (2012), Vulnerability of the existing Buildings (Empirical evaluation and Experimental Measurement), Natural Hazard, , Issue 2, doi:
47	2011	Maouche S., Meghraoui M., Morhange C., Belabbes S., Bouhadad Y., Haddoum H.(2011), Active coastal thrusting and folding, and uplift rate of the Sahel Anticline and Zemmouri earthquake area (Tell Atlas, Algeria). <i>Tectonophysics</i> 509: 69-80. doi:10.1016/j.tecto.2011.06.003
46		Y. Mehani, D. Benouar, H. Bechtoula, A. Kibboua (2011). Vulnerability evaluation of the strategic buildings in Algiers (Algeria): A methodology. <i>Natural Hazards</i> 59(1):529-551. DOI: 10.1007/s11069-011-9774-z
45		A. Kibboua, D. Benouar, M. Naili, F. Kehila (2011). Analytical fragility curves for typical Algerian reinforced concrete bridge piers. <i>Structural Engineering & Mechanics</i> 39(3):411-425. DOI: 10.12090/sem.2011.39.3.411
44		M. Abdessemed, S. Kenai, A. Bali, A. Kibboua (2011). Dynamic analysis of a bridge repaired by CFRP: Experimental and numerical modelling. <i>Construction and Building Materials</i> 25(3):1270-1276. DOI: 10.1016/j.conbuildmat.2010.09.025
43		N. Mezouer, Silhadi K. and Hadid M. (2011) Sensitivity analysis of site response effect on stochastic responses of two-span beam. <i>Advances in Structural Engineering</i> , 14:3, 413-425, https://doi.org/10.1260/1369-
42	2010	Hellel M., Chatelain J.-L., Guilier B., Machane D., Bensalem R., Oubaiche E.H., Hadoum H. 2010. Heavier Damages without Site Effects and Site Effects with Lighter Damages: Boumerdes City (Algeria) after the May 2003 Earthquake. , <i>Seism. Res. Lett</i> , 81, 1, 37-43, doi: 10.1745/gssrl.81.1.34.
41		Bensalem R., Chatelain J.-L., Machane D., Oubaiche E.H., Hellel M., Guilier B., Djeddi M., Djadia L. 2010. Ambient Vibration Techniques Applied to Explain Heavy Damages Caused in Corso (Algeria) by the 2003 Boumerdes Earthquake: Understanding Seismic Amplification
40		Djadia, L., Machane, D., Chatelain, J.L., Abtout, A., Bensalem, R., Guemache, M.A., Guilier, B., Boudella, A., Oubaiche, El.-H.(2010) Fayet (Algiers, Algeria) subsurface landfill pilot project from

		geophysical investigations. Environ Earth Sci 59, 1149–1158 (2010). https://doi.org/10.1007/s12665-009-0105-6
39		Bouhadad Y., Benhamouche A., Bourenane H., Ait Ouali A., Chikh M., Guessoum N., (2010), The Laalam (Algeria) damaging landslide triggered by a moderate earthquake (Mw5.2). Journal of Natural Hazards 54:261–272. DOI 10.1007/s11069-009-9466-0
38		Meslem, A., Yamazaki, F., Maruyama, Y., Benouar, D., Laouami, N., strong motion records of the 2003 Boumerdes, Algeria, earthquake. Earthquake Spectra, 26(3), 803-823.
37		N. Mezouer, K. Silhadi et H. Afra, Importance of spatial variability of seismic ground motion effects on long beams response, Journal of Civil Engineering and Construction Technology, Academics Journals, Vol. 1, N°1, pp 1-12, (2010), https://doi.org/10.5897/JCECT.9000017
36	2009	Samia Louadj, Eric Vincent, Ramdane Bahar and Nasser Laouami. 2009. Identification of Keddara dam behavior during the Boumerdes earthquake on May 21, 2003. <i>International Journal of Geotechnical Engineering</i> . Vol.3, Issue 1, 117-132. DOI: 10.3328/IJGE.2009.03.01.117-132.
35		Bouhadad Y., Benhamouche A., Maouche S., Belhai D.,(2009), Evidence for quaternary liquefaction-induced features in the epicentral area of the 21 May 2003 Zemmouri earthquake (Algeria, MW =6.8), Journal of Seismology,13,161-172
34		Belabbes S., Meghraoui, M., Cakir, Z., Bouhadad Y., (2009), InSAR analysis of the moderate size Ain Témouchent (Algeria) blind thrust earthquake (22/12/1999, Mw = 5.7. Journal of Seismology, DOI 10.1007/10050-009-0125-4
33		Hakim BECHTOULA, Susumu KONO and Fumio WATANABE, (2009) "Seismic performance of high strength reinforced concrete columns" Journal of Structural Engineering and Mechanics, SEM, Vol.31, No. 6, pp 607-716, ISSN 1225-4569
32		Yamina Ait Méziane, D. Benouar, (2009), Hospital Buildings Analysis under Ambient Noise after the Boumerdes-Algiers 2003 Earthquake, Protection of Historical Buildings, Prohitech 09, volume 1, Pp 815-818,
31		Yamina Ait Méziane , D. Benouar,(2009), Disaster Risk Reduction in Algiers, Algeria, Disaster Risk Reduction Cases From Urban African, (2009), (hardback) first published, Pp 169-192, Edited by Mark Peeling and Ben Wigney, Earthscan, ISBN 070 1 94407 556 0
30	2008	Machane D., Bouhadad Y., Cheikhounis G, Chatelain J.L., Oubaiche E.H., Abbes K., Guillier B., Bensalem R., (2008), Examples of geological and geomorphological hazards in Algeria, Journal Natural Hazards, 45, 205-208

29		A. Kibboua, M-N. Farsi, J-L. Chatelain, B. Guillier, H. Bechtoula, Y. Mehani (2008). Modal analysis and ambient vibration measurements on Mila-Algeria cable stayed bridge. <i>Structural Engineering & Mechanics</i>
28		Bouhadad, Y.(2008), Probabilistic seismic hazard assessment in eastern Algeria. <i>Cahiers du Center Européen de Géodynamique et de</i>
27	2007	Youcef MEHANI, Hakim BECHTOULA and Abderrahmane KIBBOUA, (2007) “Non linear analysis and seismic vulnerability study of a strategic existing non-tied masonry building”, <i>Journal of the European Earthquake Engineering</i> , Vol. XXI, N°. 2, pp.32-39, ISSN
26		Y. Mehani, A. Kibboua (2007). Seismic assessment of a R/C strategic existing building. <i>Structural Engineering & Mechanics</i> 26(6):617-634. DOI: 10.12989/sem.2007.26.6.617
25	2006	Nasser Laouami, Abdennasser Slimani, Youcef Bouhadad, J L Chatelain and Ali Nour. 2006. Evidence for fault-related directionality and localized site effects from strong motion recordings of the 2003 Boumerdes (Algeria) earthquake: consequences on damage distribution and the Algerian seismic code. <i>Soil Dynamics and Earthquake Engineering</i>
24		Micarelli L., Moretti I., Jaubert M. & Moulouel H. (2006). Fracture analysis in the south-western Corinth rift (Greece) and implications on fault hydraulic behavior. <i>Tectonophysics</i> , 426, 31 –59. Doi:
23		Hakim BECHTOULA, Masanobu SAKASHITA, Susumu KONO, Fumio WATANABE and Marc O. EBERHARD, (2006) “Cyclic Performance of Lower Stories of Mid-Rise Reinforced Concrete Frame Buildings”, <i>Journal of the American Concrete Institute</i> , ACI, V. 103, N°. 5, pp. 542-554, ISSN 0891-9622-0000-0000
22		Kono S., Bechtoula H., Sakashita M., Tanaka H., Watanabe F. and Eberhard M.O., (2006) "Damage Assessment of Reinforced Concrete
21		237, <i>Finite-Element Analysis of Reinforced Concrete Structures</i> , American Concrete Institute, ACI, Volume 237, pp. 165-176, ISSN
20	2005	Nasser Laouami, Pierre Labbé and Ramdane Bahar. 2005. Stochastic model of seismic torsional ground motion: Application to Lotung soft site. <i>Journal of Seismology</i> , Volume 9, Issue 4, 463 – 472. DOI

19		Guillier, B., J.-L. Chatelain, M. Hellel, D. Machane, N. Mezouer, R. Bensalem, and E. H. Oubaiche (2005). Smooth bumps in H/V curves over a broad area from single-station ambient noise recordings are meaningful and reveal the importance of Q in array processing: The Boumerdes (Algeria) case. <i>Geophysical Research Letters</i> 32; L24306,
18		Hakim BECHTOULA and Hassane OUSALEM, (2005) “The 21 May Zemmouri, Algeria, Earthquake: Damage and Disaster Response”, the <i>Journal of Advanced Concrete Technology, ACT, Vol. 3, N°. 1, pp. 161-174, ISSN 1246-8014</i>
17		Hassane OUSALEM and Hakim BECHTOULA, (2005) “Inventory Survey of the 2003 Zemmouri, Algeria, Earthquake: Case Study of Dergana City”, <i>Journal of Advanced Concrete Technology, ACT, Vol.</i>
16		Hakim BECHTOULA, Masanobu SAKASHITA, Susumu KONO and Fumio WATANABE, (2005) “Seismic Performance of 1/4-Scale RC Frames Subjected to Axial and Cyclic Reversed Lateral loads”, <i>Journal of Computer and Concrete, CAC, Vol.2, N°.2, pp.147-164, ISSN 1598-</i>
15	2004	A. Bounif, C. Dorbath, A. Ayadi, M. Meghraoui, H. Beldjoudi, N. Laouami et al.. 2004. The 21 May, 2003 (Mw 6.8) Zemmouri (Algeria) earthquake relocation and aftershock sequence analysis. <i>Geophysical Research Letters</i> , Vol. 31, L19606, doi:10.1029/2004GL020586
14		Bouhadad Y. et Laoumi, N.(2004), Reply to comment on the paper «earthquake hazard assessment in the Oran region, northwest Algeria by bouhadad & Laouami ». <i>Journal Natural hazard</i> , 32 (1), pp. 161-
13		Bouhadad, Y.; Nour, A.; Slimani, A.; Laouami, N.; Belhai, D. (2004), The Boumerdes (Algeria) earthquake of May 21, 2003 MW=6.8): <i>Ground deformation and intensity, Journal of seismology</i> , 8, 497-506
12		Meghraoui, M. ; Maouche, S. ; Chema, B. ; Cakir, Z. ; Aoudia, A.; Harbi, A. , Alasset, P.J. ; Bouhadad, Y., Benhamouda, F. (2004), Coastal uplift and thrust faulting associated with the (Mw=6.8) ZEMMOURI (Algeria) earthquake of 21 May, 2003. <i>Geophysical Research Letters</i> (GRL)
11		Ait Méziane Yamina, M.N.Farsi and D. Benouar, (2004), Seismic vulnerability estimation of representative building in the Algiers district of Bab El Oued (Algeria), <i>European Earthquake Engineering n°1 2004</i> ,
10		Yamina Ait Méziane, (2004), Stone Masonry Apartment Building, <i>World Housing Encyclopedia, Summary publication, Pp 4–6, Edited by</i>

09	2003	A. Nour, A. Slimani, N. Laouami and H. Afra. 2003. Finite element model for the probabilistic seismic response of heterogeneous soil profile. <i>Soil Dynamics and Earthquake Engineering</i> , Elsevier science Ltd, Vol. 23, N°5, pp 221-248. doi:10.1016/S0267-7261(02)00026-0
08		Bouhadad, Y.; Nour, A.; Laouami, N.; Belhai, D.(2003), The Tachaouaft-Beni-ouertilane fault and seismotectonic aspects of the
07	2002	A. Nour, A. Slimani and N. Laouami. 2002. Foundation settlement statistics via finite element analysis. <i>Computers and Geotechnics</i> . Volume 29, Issue 8, 641-672
06		A. Slimani, Y. Bouhadad, A. Nour and N. Laouami. 2002. Characterisation of the 10 th November 2000, Beni Ouertilane Earthquake (Algeria). <i>European Earthquake Engineering</i> , XVI (3), 10-21
05		Bouhadad, Y. et Laouami, N., (2002), Earthquake hazard assessment in the western of Algeria. <i>Journal natural hazards</i> . 26. pp.227-243.
04		N. Laouami and P. Labbé. 2002. Experimental analysis of seismic torsional ground motion recorded by Lotung LSST array. <i>Earthquake Engineering and Structural Dynamics</i> . Vol. 31, N°12 , pp 2141-2148. DOI: 10.1002/eqe.208
03	2001	Bouhadad, Y. (2001), The Murdjadjo, western Algeria, fault-related fold: implication for seismic hazard, <i>Journal of Seismology</i> , 5, pp.541-
02		N. Laouami and P. Labbé. 2001. Analytical approach for evaluation of the seismic ground motion coherency function. <i>Soil Dynamics and Earthquake Engineering</i> . Vol. 21, N°8, pp 727-733. doi:10.1016/S0267-7261(01)00041-0
01	2000	Bouhadad, Y. (2000), Probabilistic seismic hazard assessment in the Beni Chougrane, western Algeria, region, <i>European Earthquake</i>

2- National Publications

Année	Auteurs, (année). Intitulé. Journal, Issues, doi.
2026	Mme Bouchelouh et al 2026 : parution de deux articles dans la revue nationale « Algérie Equipement » de l'école nationale supérieure de travaux publics ENSTP, journal N° 75 (juin 2026) :
2025	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.
	Yousfi N, Boukri Mehdi, Ait Belkacem M (2025) Evaluation de la vulnérabilité sociale face aux séismes. <i>Algérie Equipement</i> . 73 : 42-51.
2024	Yousfi N, Boukri Mehdi, Ait Belkacem M (2025) Evaluation de la vulnérabilité sociale face aux séismes. <i>Algérie Equipement</i> . 73 : 42-51.
	N. Yousfi, M. Ait Belkacem, M. Bensaïbi, N. Guessoum. (2024) Evaluation Empirique de l'Indice de Vulnérabilité des Structures en Maçonnerie Chainée : Cas d'Etude de la Ville d'Alger. <i>Algérie Equipement</i> : 23-32. http://ensta.edu.dz/revue/images/71/4/article_yousfi_RAE71
	M. Ait Belkacem, N. Yousfi (2024) Détermination Des Caractéristiques Dynamiques Des Structures Existantes en Béton Armée. <i>Algérie Equipement</i> : 08-17. http://enstp.edu.dz/revue/images/71/2_article_ait_belkacem_RAE71 .
2023	Abbas D.; Bouhadad Y. (2023) es Coulées De Débris D'ait-ouabane (w. De Tizi Ouzou) Du 29/04/2022: Causes Et Solutions, Bulletin du Service Géologique de l'Algérie Volume 32, Numéro 1, Pages 19-32, 2023 -07-25.
	Benfedda A., Abbouda M., Slimani A., Haddouche D., Abbes K., Nekmouche A., Bouhadad Y. 2023, Le Seisme De Gdeyel (oran) Du 26 Juin 2022 (mw 4.3): Etude Sismologique Et Implication Sismotectonique, Bulletin du Service Géologi
	Benboukhari, B. Chikh, A. Mebarki, M. Remki (2023), " Seismic vulnerability and fragility assessment of a strategic building in Algeria ", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N° 69 juin 2023. pp 28-43
	Kehila F, Kibboua A, Remki M, " Evaluation de la vulnérabilité sismique des piles de pont en béton armé à l'aide de la mesure de l'intensité vectorielle", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N° 68 Résumé- janvier 2023, pp 35-50
	Hassan Aknouche, Abdelhalim Airouche et Hakim Bechtoula. « Evaluation de la performance sismique de la première structure isolée, en algérie » Algérie Équipement, Juin 2022

	Bencharif R. Zahafi Amina Mezouar N. Hadid M. "Time-domain implementation of soil-structure interaction analysis techniques with frequency-dependent impedance functions". Algérie Equipement. N° 69, PP 1-20. 2023.
2022	Abdelhalim Airouche, Hassan Aknouche, Nassima Benkaci, Hakim Bechtoula. Parution en ligne de l'article Intitulé : Identification expérimentale des fréquences propres des gradins du stade de 40 000 places de Baraki, Alger, dans la revue scientifique Algérie Équipement. Juin 2022
	Hassan Aknouche, Abdelhalim Airouche, Nassima Benkaci, Hakim Bechtoula. Parution en ligne d'un article dans la revue scientifique Algérie Équipement, intitulé Evaluation Expérimentale Du Degré De Précision Dans La Reproduction Des Signaux Sismiques Du Système Table Vibrante Du CGS. Juin 2022.
	Bourenane Hamid, Kerkar Slim et Bedr Samir (2022) cartographie de la susceptibilité aux mouvements de terrain le long de la route national rn 8 au Sud de la ville de Larbaa (Nord-est de la wilaya de Blida) par modélisation statistique sous SIG. Revue Algérie Equipement - ENSTP . Algérie Equipement e-ISSN : 2716 - 7801. Juin 2022, N° 67 : 49-65.
2021	Tebbouche, M. Y., Ait Benamar, D. (2021). Contribution aux analyses des effets de site : cartographie de l'épaisseur des sédiments dans le bassin de la Mitidja
	Kehila F, Remki M, Kibboua A (2021),"Comparaison des courbes de fragilité des piles de ponts conçues avant et après l'application du code sismique Algérien", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N°64 : 47-50, e-ISSN : 2716-7801
2020	REMKI Mustapha, KEHILA Fouad, KHELFI Mebarek, KIBBOUA Abderrahmane, MEHANI Youcef "Evaluation de l'endommagement et de la vulnérabilité sismique des bâtiments en maçonnerie », Algérie Equipement, Juin 2020
2019	Gherboudj, F. Laouami, N. (2019) "Analyse probabiliste de l'aléa sismique en Algérie : Développement du spectre de réponse et choix du scénario » Algérie Equipement, Janvier 2019, N° 60 : 49-59, ISSN: 1111-5211
2018	N. Mezouar, M. Hadid, A. Boudani (2018), Effet de l'hétérogénéité en profondeur des propriétés de sol sur la stabilité dynamique des murs de soutènement poids, ALGERIE EQUIPEMENT, N° 58, pp44-53
	N. Hemaidi-Zourgui, A. Kibboua, M. Taki (2018). Evaluation de la performance sismique d'un pont en béton précontraint à Tipasa en développant les courbes de fragilité de la pile. Algérie Equipement, N° 59 : 66-79
	Youcef MEHANI, Abderrahmane KIBBOUA, Benazouz CHIKH et Mustapha REMKI, " Analyse statique non linéaire d'un bâtiment en béton armé avec et sans murs en maçonnerie de remplissage".. ALGERIE EQUIPEMENT. Revue scientifique de l'Ecole Nationale Supérieure des Travaux Publics, ISSN 1111 -

2014	B. Nait Amara, Dj. Aissa, (2014). Contribution des SIG à l'étude des minéralisations de la partie Centro-orientale du Nord Algérien, Bulletin du
2013	Rafik Taleb, Hakim Bechtoula, Nouredine Bourahla et Susumu Kono", (2013) Performance sismique des voiles de contreventement en béton arme avec ouvertures excentrées", Revue scientifique et technique de l'école National Supérieure des Travaux Publics, Algérie Equipement, N ° 52 Mai 2013, pp. 53-60. Hellel M., J.-L. Chatelain, G. Cheikhounis, D. Machane, E.H. Oubaiche, R. Bensalem, B. Guillier, N. Benidir et L. Fernane, 2013. Evaluation des fréquences de résonance du sol par la méthode H/V-bruit ambiant dans la zone d'Hussein Dey, <i>Cavendish (Baie d'Alger) Mem. Serv. Géol. Alg.</i> 24, 1, 80-101
2012	A. Laib et N. Laouami. 2012. Approche analytique pour l'évaluation de l'influence de l'hétérogénéité du sol sur la fonction de cohérence et les
2011	L. Haderbache et N. Laouami. 2011. Analyse fiabiliste de la stabilité des talus - Proposition d'amélioration de la PEM. Algérie Equipement. ISSN 1111-5211, 49.
2010	Benhamouche et A. Nedjari (2010) : « Les séquences sédimentopédogénétiques dans les formation hamadiennes de Tindouf. Algérie ». Bulletin du service géologique National-Algérie. Volume 21, N°2, Mai 2010. pp103-115
2009	Kehila F, Zerzour A (2009), "Analyse des structures avec l'effet de flexibilité des planchers", Revue scientifique et technique de l'école National Supérieure des
2007	Y. Mehani, A. Kibboua, B. Chikh (2007). Seismic performance of reinforced concrete building using spectrum response and pushover analyses. Algérie
2004	N. Laouami, A. Slimani, Y. Bouhadad, A. Nour et S. Larbes. 2004. Analysis of strong ground motions registered by the 21 st May 2003 main shock of the Boumerdes, Algeria, earthquake. pp : 93-102. Groupe Géoscientifique d'étude du séisme (eds). Le séisme de Zemmouri (Boumerdès, Algérie) du 21 Mai 2003 (Mw=6.8) : constats et premiers enseignement, Mémoires du service géologique de l'Algérie, ORGM, Editions du service géologique de l'Algérie B Guillier, D Machane, EH Oubaiche, JL Chatelain, Y Ait Meziane, R Ben Salem, F Dunand, Ph Guéguen, M Hadid, M Hellel, A Kibboua, N Laouami, N Mezzouer, A Nour, A Remas. 2004. Resultats preliminaires sur les frequences fondamentales et les amplifications de sols obtenus par l'etude du bruit de fond Dunand, F., Y. Ait Meziane, P. Guéguen, J.-L. Chatelain, B. Guillier, R. Bensalem, M. Hadid, M. Hellel, A. Kibboua, N. Laouami, D. Machane, N. Mezzouer, A. Nour, E.H. Oubaiche, and A. Remas (2004). Utilisation du bruit de fond pour l'analyse des dommages des bâtiments de Boumerdes suite au séisme

	Machane, D.; Bouhadad, Y.; Oubaiche, E.H.; Hellel, M.; Amrouche, F.; Abbas, K.; Messaoudi, M.; Cheikhounis, G. (2004), Description morphologique des effets induits par le séisme de Boumerdes (Algérie) du 21 Mai 2003 ($M_W=6.8$)., <i>Mémoires du Service Géologique d'Algérie</i>, n°12,133-146.
	Bouhadad, Y ; Laouami, N. ; Khedri, H. Bounif, M.A. ; Belhai, D. ; Nour, A., Slimani, A., Larbes, S. ; Ziou, S. Machane, D. ; Oubaiche, E.H, (2004), Sismotectonique de la région d'Alger-Boumerdes (Algérie) : le séisme du 21 mai

