

Research projects carried out by CGS from 1996 to 2025

No.	**Title**	**Year**
1	Behavior of reinforced concrete beam-column joints under seismic loading	1996
2	Study of the behavior factor B of self-stable reinforced concrete structures: influence of soil type	1996
3	Optimization of the behavior factor B of self-stable reinforced concrete structures through RPA 88	1996
4	Map of historical maximum intensities	1996
5	Adaptation of the Drain-Tabs program to Sun stations and PC, and user manual	1996
6	Rapid diagnostic method for buildings and methods for evaluating their seismic resistance: influence of building-related parameters on their degree	1996
7	Seismic analysis by the finite element method of structures subjected to multiple support excitations	1997
8	Seismic behavior of liquid transport pipelines	1997
9	Dense strong motion recording network of Boukourdane, Tipaza: geological and seismological context of the Boukourdane dam site and phases	1997
10	Transfer of the response spectrum from the rock substratum to the free surface of a non-homogeneous soil profile	1998
11	Determination of impedance functions of arbitrary-shaped foundations in a non-homogeneous soil	1998
12	Influence of masonry infill panels on the behavior factor B	1998
13	Study of the behavior factor of structures braced by self-stable reinforced concrete frames	1998
14	Seismic behavior of liquid storage tank structures	1998
15	Experimental database of seismic data and proposal of regulatory response spectra	1998
16	Frequency and soil amplification level mapping in urban areas - case of the city of Algiers	1999
17	Study of the Algerian experience in the field of repair and strengthening of structures	1999
18	Study of settlement phenomena and differential movements of structures induced by soil heterogeneities	1999
19	Nonlinear analysis of the dynamic behavior of soils by the finite element method	1999
20	Seismic analysis of a soil layer with heterogeneous characteristics: theoretical formulation of the analysis method, program, and numerical implement	1999
21	Determination of impedance functions of arbitrary-shaped foundations embedded in a non-homogeneous soil: formulation of the three-dimensional mo	1999
22	Instrumentation program for dense networks, experimental analysis of site effects, and validation of existing methods: bibliographic analysis of methods	1999
23	Study of settlement phenomena and differential movements of structures induced by soil heterogeneities	2000
24	Seismic analysis of a heterogeneous soil layer	2000
25	Characterization of the Ain Temouchent earthquake: main shock of 12/22/1999 and aftershock of 01/27/2000	2000
26	Ambient vibration test carried out on the structure of the new Houari Boumédiène airport terminal	2000
27	Transfer of the response spectrum from the rock substratum to the free surface of a non-homogeneous soil profile	2000
28	Study of the Algerian experience in the field of repair and strengthening of structures: inventory of strengthening and repair methods used in	2000
29	Identification and calibration of dynamic behavior models of structures from experimental vibrations	2001
30	Numerical generation of artificial seismic signals for dynamic calculation within the framework of the new Algerian seismic regulation, RPA 1999: general	2001
31	Method for analyzing the seismic vulnerability of constructions	2001
32	Study of the Algerian experience in the field of repair and strengthening of structures	2001
33	Statistical study on the dynamic characteristics of civil engineering structures (bridges and water towers)	2001
34	Development of vulnerability functions for the city of Algiers: inventory, classification, and categorization of buildings	2001
35	Statistical study on the dynamic characteristics of buildings	2001
36	Propagation of seismic waves in porous media	2001

- | 37 | Characterization of seismic motion on rock from the deconvolution of free-field seismic recordings: dynamic characterization of sites | 2001 |
- | 38 | Method for analyzing the seismic vulnerability of steel structure buildings | 2002 |
- | 39 | Behavior of concrete under high loading rates | 2002 |
- | 40 | Generation of transfer functions by the ARMA method: applications to defect detection in buildings | 2002 |
- | 41 | Influence of seismic isolators on the dynamic response of buildings: seismic isolation system and energy dissipator for strong earthquakes: effects | 2002 |
- | 42 | Modeling of asymmetric buildings | 2002 |
- | 43 | Development of rock attenuation laws from the deconvolution of surface-recorded motions: characterization of profiles | 2002 |
- | 44 | Experimental determination of dynamic soil characteristics for identifying site effects | 2003 |
- | 45 | Identification and characterization of damage in self-stable reinforced concrete structures | 2003 |
- | 46 | Characterization of the Boumerdes earthquake: analysis of recordings of the main shock of 05/21/2003 | 2003 |
- | 47 | Paleo-seismological investigations in Oranie | 2003 |
- | 48 | Generation of transfer functions by the ARMA method | 2003 |
- | 49 | Development of an approach for investigating active faults: application to the Babors region: analysis and interpretation of aerial photographs | 2003 |
- | 50 | Characterization of the fault that generated the Boumerdès earthquake from seismometric and accelerometric data | 2004 |
- | 51 | Paleoseismological investigations and their implication for the seismic hazard of the Algiers-Boumerdès region | 2004 |
- | 52 | Quantification of site effects following the Boumerdès earthquake from seismometric and accelerometric measurements | 2004 |
- | 53 | Seismic vulnerability of traditional urban buildings with arcade facades on the first two levels: study of structural typology and sampling | 2004 |
- | 54 | Method for analyzing the seismic vulnerability of industrial constructions | 2004 |
- | 55 | Evaluation of post-seismic building classification and assessment of rehabilitations made to buildings affected by an earthquake. Use of noise | 2005 |
- | 56 | Diagnosis of structures by dynamic methods | 2005 |
- | 57 | Development of an earthquake location methodology using weight modification given to arrival times | 2005 |
- | 58 | Analysis of the stochastic response of structures under seismic excitation | 2005 |
- | 59 | Setting up a geotechnical database | 2005 |
- | 60 | Neotectonics of the Bouzaréah region | 2005 |
- | 61 | Detection of fault traces by the ambient noise geophysical method (H/V) | 2005 |
- | 62 | Experimental determination of dynamic soil characteristics for identifying site effects | 2005 |
- | 63 | Study of the P-Delta effect in high-rise buildings (IGH) subjected to seismic action | 2005 |
- | 64 | Development of rock attenuation laws from the deconvolution of surface-recorded motions: determination by deconvolution of | 2005 |
- | 65 | Structural control of buildings using energy dissipation devices | 2005 |
- | 66 | Paleoseismological investigations and their implication for the seismic hazard of the Algiers-Boumerdes region | 2005 |
- | 67 | Method for analyzing the seismic vulnerability of steel structure buildings | 2005 |
- | 68 | Characterization of the fault that generated the Boumedés earthquake from seismometric and accelerometric data: creation of a database | 2005 |
- | 69 | Comparison of the performance of construction systems in Algeria with respect to seismic loading | 2006 |
- | 70 | Development of a vulnerability assessment methodology for rapid seismic alert | 2006 |
- | 71 | Study of nonlinear models and their effects on the seismic response of soil layers | 2006 |
- | 72 | Numerical investigation of unstable slopes subjected to earthquakes | 2006 |
- | 73 | Influence of seismic source parameters, propagation path, and site on the response of structures | 2006 |
- | 74 | Development of vulnerability functions for reinforced concrete bridge piers | 2006 |
- | 75 | Study of the dynamic behavior of a construction with load-bearing walls in reinforced brick masonry | 2006 |

- | 76 | Behavior of reactive powder concretes (RPC) under cyclic loading | 2006 |
- | 77 | High-performance concretes | 2006 |
- | 78 | Diagnosis of structures by dynamic methods | 2006 |
- | 79 | Contribution of hydrographic network analysis to the identification of active geological structures and applications in Algeria | 2006 |
- | 80 | Identification, characterization, and prioritization of active faults in Kabylia | 2006 |
- | 81 | Dynamic analysis under ambient loading of a cable-stayed bridge in the wilaya of Mila | 2006 |
- | 82 | Analysis of the stochastic response of structures under random seismic excitations | 2006 |
- | 83 | Study of the dynamic behavior of a reinforced concrete bridge on Oued Oumazer - Cherchell before and after strengthening with composite materials | 2006 |
- | 84 | Study of the seismic response on the Neogene basin of the Mitidja. Site effects, structure, and evaluation of P, S, and Rayleigh seismic wave velocities | 2006 |
- | 85 | Characterization of the seismic source from the inversion of seismological and accelerometric data recorded during the Laalam earthquake of March 20, 2003 | 2006 |
- | 86 | Mapping and uplift of marine terraces along the Algiers coast: quantification of recent tectonic movements | 2007 |
- | 87 | Development of spectral attenuation laws taking into account major earthquakes for Algeria | 2007 |
- | 88 | Contribution of accelerometric recordings to test the performance of Algerian regulatory spectra and their relationship with soil classification | 2007 |
- | 89 | Design and dynamic analysis of structures on seismic isolators: bibliographic research on theoretical aspects of the seismic isolation technique | 2007 |
- | 90 | Static and dynamic design and analysis of structures on seismic isolators: instrumentation of the CTC agency - Chlef - Ain Defla | 2007 |
- | 91 | Static and dynamic design and analysis of structures on seismic isolators: parametric and comparative study | 2007 |
- | 92 | Structural control of buildings using energy dissipation devices: characterization of the energy dissipator | 2007 |
- | 93 | Seismic microzonation study of the wilaya of Algiers | 2007 |
- | 94 | Analysis of the stochastic response of structures under random seismic excitations | 2007 |
- | 95 | Critical excitation for the design of structures taking into account the non-stationarity of the earthquake | 2008 |
- | 96 | Use of geotechnical, geophysical, and ambient noise measurements for mapping vibration frequencies and seismic amplifications | 2008 |
- | 97 | Seismic performance of reinforced concrete bridge piers: case of Algerian bridge piers | 2008 |
- | 98 | Use of geotechnical, geophysical, and ambient noise measurements for mapping vibration frequencies and seismic amplifications in the wilaya of Algiers | 2008 |
- | 99 | Seismic microzonation study of urban sites in the wilaya of Boumerdes | 2008 |
- | 100 | Seismic microzonation study of the wilaya of Tipaza | 2008 |
- | 101 | Seismic microzonation study of the Terga combined cycle power plant 3X400 MW: contract CGS/ALSTOM | 2008 |
- | 102 | Geological and paleoseismological investigations in the Jijel region (Algeria) | 2009 |
- | 103 | Study of seismic risk on the Bay of Algiers: site effects and eval seismic wave velocities : pre-installation, uninstallation of the RISC network | 2009 |
- | 104 | Development of spectral attenuation laws taking into account major earthquakes for Algeria: development of experimental attenuation laws | 2009 |
- | 105 | Critical excitation for the design of structures taking into account the non-stationarity of the earthquake | 2009 |
- | 106 | Use of geotechnical, geophysical, and ambient noise measurements for mapping vibration frequencies and seismic amplifications | 2009 |
- | 107 | Development of an earthquake location methodology using weight modification given to arrival times: catalog of arrival times | 2009 |
- | 108 | Influence of the nature of floors on the distribution of the seismic design load | 2009 |
- | 109 | Spectral calculation of seismic hazard taking into account attenuation laws developed for Algeria | 2010 |
- | 110 | Estimation of the potential of onshore and offshore seismic sources on either side of the Africa-Europe plate boundary in North-East Algeria | 2010 |
- | 111 | Development of seismotectonic maps of the Ain Defla, Relizane, Mostaganem, and Tlemcen regions | 2010 |
- | 112 | Physical simulation of environmental parameters affecting seismic motion for their characterization | 2010 |
- | 113 | Performance-Based Seismic Design (PBSD) procedures for the future Algerian code | 2010 |
- | 114 | Development of seismotectonic maps of the Ain Defla, Relizane, Mostaganem, and Tlemcen regions | 2010 |

- | 115 | Investigation of the behavior of clayey slopes subjected to seismic action | 2010 |
- | 116 | Use of geotechnical, geophysical, and ambient noise measurements for mapping vibration frequencies and seismic amplifications | 2010 |
- | 117 | Search for evidence of paleoseismicity in Plio-Quaternary deposits of the Boumerdes region | 2011 |
- | 118 | Nonlinear seismic analysis of buildings taking into account the Algerian accelero database Contribution to the develop of the regulatory design spectrur
- | 119 | Detailed seismotectonic mapping of the North-West Algerian region | 2011 |
- | 120 | Analysis of seismic behavior in marshy areas (Dried Black Lake, El Tarf) and coastal extension areas (Sablettes, Algiers) | 2011 |
- | 121 | Analysis of site effects and damage in the two municipalities of the Boumerdés region: Boumerdès and Zemmouri | 2011 |
- | 122 | Use of satellite imagery for post-seismic damage detection | 2011 |
- | 123 | Numerical modeling of the CGS shaking table and experimental verification | 2011 |
- | 124 | Spectral calculation of seismic hazard into account attenuation laws developed for Algeria: develop the performance of the seismic hazard calculation
- | 125 | Geological and paleoseismological investigations in the Jijel region (Algeria) | 2011 |
- | 126 | Evaluation of the seismic perform of self-stable reinforced concrete struct: application of the Capacity Spectrum Method (CSM) for determining capacit
- | 127 | Develop seismotectonic maps of the Ain Defla, Relizane, Mostaganem, and Tlemcen regions: compilation of seismicity catalogs for the considered regio
- | 128 | Development of an earthquake relocation methodology using weight modification given to arrival times | 2011 |
- | 129 | Morphotectonic characterization of faults in the Guelma basin in relation to hydrothermalism | 2012 |
- | 130 | Experimental determination of dynamic behavior laws of marls in the Algiers region | 2012 |
- | 131 | Investigations of active faults in the Center-East regions (Bejaia, Bordj Bou Arreridj, and Msila) | 2012 |
- | 132 | Experimental Investigation of the Performance of the CGS Shaking Table Controller in Compensating and Reproducing Seismic Excitations | 2012 |
- | 133 | Comparison of the performance of construction systems in Algeria with respect to seismic loading: conclusions and recommendations | 2012 |
- | 134 | Spectral calculation of seismic hazard into account attenuation laws developed for Algeria: analysis of uncertainties and disaggregation in an estimator
- | 135 | Estimation of the potential of onshore and offshore seismic sources on either side of the Africa-Europe plate boundary in north-east Algeria: hazard ma
- | 136 | Technical recommendations for repairs and strengthening of existing buildings | 2012 |
- | 137 | Search for evidence of paleoseismicity in Plio-Quaternary deposits of the Boumerdes region | 2012 |
- | 138 | Vector analysis of seismic hazard: Development of conditioned seismic hazard maps for Algeria | 2013 |
- | 139 | Characterization and calculation of seismic source parameters in the Mitidja basin using the dense seismograph network | 2013 |
- | 140 | Evaluation of site effects using ambient noise array techniques and spectral ratio techniques on the Mitidja basin | 2013 |
- | 141 | Characterization of the Thénia fault zone: implication for local seismic hazard | 2013 |
- | 142 | Interaction of geological hazards and earthquakes: Case of landslides in Petite Kabylia | 2013 |
- | 143 | Development of fragility curves for reinforced concrete bridges | 2013 |
- | 144 | Study of the seismic behavior of cold-formed steel structures with a view to their integration into regulations | 2013 |
- | 145 | Physical simulation of environmental parameters affecting seismic motion for their characterization | 2013 |
- | 146 | Numerical and experimental investigations of the seismic performance of reinforced concrete structures braced with L-shaped shear walls | 2013 |
- | 147 | Estimation of the stability of heterogeneous soil slopes via the Point Estimate Method (PEM) | 2013 |
- | 148 | Masonry wall constructions | 2013 |
- | 149 | Processing of satellite imagery for post-seismic damage detection | 2014 |
- | 150 | Experimental determination of dynamic soil characteristics for identifying site effects: exploitation of results and establishment of laws | 2014 |
- | 151 | Experimental determination of dynamic behavior laws of marls in the Algiers region: behavior laws and test procedures | 2014 |
- | 152 | Investigations of active faults in the center-east regions (Bejaia, Bordj Bou Arreridj, and Msila): development of a preliminary map of active faults | 2014
- | 153 | Characterization of the Thénia fault zone: Implication for local seismic hazard | 2014 |

| 154 | Correlation between shear wave velocities (V_s) and Standard Penetration Test (N-SPT) | 2014 |

| 155 | Dynamic characterization of sites based on inversion of surface waves and quantification of site factors | 2014 |

| 156 | Analysis of the performance of confined masonry with respect to seismic loading | 2014 |

| 157 | Correlations between shear wave velocities (V_s) and Standard Penetration Test (N-SPT) - Applications in the Algiers region | 2014 |

| 158 | Dynamic characterization of sites based on inversion of surface waves and quantification of site factors | 2014 |

| 159 | Analysis of the performance of confined masonry with respect to seismic loading | 2014 |

| 160 | Conditional Simulation of Spatially Incoherent Seismic Motions | 2015 |

| 161 | Proposal of a new approach for selecting seismic recordings for nonlinear analysis of structures | 2015 |

| 162 | Search for evidence of paleoseismicity in Greater Kabylia (Algeria) | 2015 |

| 163 | Introduction of the spectral ratio method using seismic noise, S, and Coda waves for estimating site effects | 2015 |

| 164 | Applicability of the ambient noise H/V method for locating tectonic faults | 2015 |

| 165 | Highlighting the Blida fault by geological and geophysical data: seismotectonic implication | 2015 |

| 166 | Experimental evaluation of site effect zones and comparison of In-situ results Ambient noise H/V with geotechnical data in Algiers city | 2015 |

| 167 | Search and characterization of active faults in the center-west region (Alger-Tipaza) | 2015 |

| 168 | Seismic P-Y curves for isolated piles | 2015 |

| 169 | Influence of spatial variability in depth of poro-elastic soil properties on the response of shallow foundations using the thin layer method | 2015 |

| 170 | Displacement-Based Seismic Design (DBSD) for high-rise buildings | 2015 |

| 171 | Performance evaluation of cold-formed sections under axial loading | 2015 |

| 172 | Analysis of the performance of reinforced concrete frames with rigid masonry infill by introducing insulating materials | 2015 |

| 173 | Vulnerability study of reinforced concrete bridge piers: Application of capacity design according to RPOA-2008 | 2015 |

| 174 | Search and characterization of active faults in the center-west region (Alger-Tipaza) | 2015 |

| 175 | Displacement-Based Seismic Design (DBSD) for high-rise buildings | 2015 |

| 176 | Methodology for evaluating the seismic performance and damage of bridges in Algeria | 2015 |

| 177 | Experimental evaluation of site effect zones and comparison of in-situ results Ambient noise H/V with geotechnical data in Algiers city: synthesis | 2015 |

| 178 | Dynamic characterization of sites based on inversion of surface waves and quantification of site factors: state of the art of inversion methods | 2015 |

| 179 | Morphotectonic characterization of faults in the Guelma basin in relation to hydrothermalism: fault segment tracing | 2015 |

| 180 | Morphotectonic characterization of faults in the Guelma basin in relation to hydrothermalism: digitization and processing of geological maps and photo | 2015 |

| 181 | Applicability of the ambient noise H/V method for locating tectonic faults: bibliographic synthesis on different geophysical prospecting methods | 2015 |

| 182 | Search for evidence of paleoseismicity in Greater Kabylia (Algeria) | 2015 |

| 183 | Applicability of the ambient noise H/V method for locating tectonic faults | 2015 |

| 184 | Experimental evaluation of site effect zones and comparison of In-situ results Ambient noise H/V with geotechnical data in Algiers city | 2015 |

| 185 | Seismic P-Y curves for isolated piles | 2015 |

| 186 | Influence of spatial variability in depth of poro-elastic soil properties on the response of shallow foundations using the thin layer method | 2015 |

| 187 | Displacement-Based Seismic Design (DBSD) for high-rise buildings | 2015 |

| 188 | Conditional Simulation of Spatially Incoherent Seismic Motions | 2015 |

| 189 | Proposal of a new approach for selecting seismic recordings for nonlinear analysis of structures | 2015 |

| 190 | Introduction of the spectral ratio method using seismic noise, S, and Coda waves for estimating site effects | 2015 |

| 191 | Contribution of historical and instrumental seismicity in determining active faults in the Blida region | 2015 |

| 192 | Search and characterization of active faults in the center-west region (Alger – Tipaza) | 2015 |

- | 193 | Analysis of the performance of confined masonry with respect to seismic loading | 2015 |
- | 194 | Numerical modeling of the CGS shaking table and experim verif: develop of the numerical model of the Controller-Table-Specimen-Foundation system |
- | 195 | Development of vulnerability functions for reinforced concrete bridges | 2015 |
- | 196 | Behavior of reinforced concrete beam-column joints under seismic loading | 2015 |
- | 197 | Search and study of seismites in coastal Quaternary deposits of western Oranie (Wilayas of Oran, Ain Témouchent, and Tlemcen) | 2016 |
- | 198 | Analysis of the seismic performance of reinforced concrete frames with rigid masonry infill by introducing an energy dissipating material | 2016 |
- | 199 | Search and study of earthquakes in coastal Quaternary deposits of western Oranie (Wilayas of Mostaganem, Oran, Ain Témouchent, and Tlemcen) | 20
- | 200 | Development of seismic fragility curves for masonry buildings | 2016 |
- | 201 | Methodology for evaluating the seismic performance and damage of bridges in Algeria | 2016 |
- | 202 | Correlations of liquefaction resistance with in-situ test results and comparison with dynamic analysis of saturated porous media | 2016 |
- | 203 | Use of the ambient noise technique on the ground and buildings to identify the resonance phenomenon: Case study of Algiers city center | 2016 |
- | 204 | Vulnerability of reinforced concrete buildings: Comparison of calculation parameters and experimental parameters | 2016 |
- | 205 | Transient probabilistic study of spectra | 2017 |
- | 206 | Analytical and numerical investigation of the contribution of isolation systems in reducing seismic demands on buildings and equipment | 2017 |
- | 207 | Search and study of paleo-tsunami indices in the coastal regions of Mostaganem and Jijel | 2017 |
- | 208 | The seismic sequence (2013-2016) of the Blidean massif: Seismological and seismotectonic study | 2017 |
- | 209 | Neotectonics of the southern border of the Chellif Neogene basin and active tectonics in the geological structure of Djebel Meni | 2017 |
- | 210 | Characterization and paleoseismology of the Thénia fault zone: implication for seismic hazard and microzonation | 2017 |
- | 211 | Mapping and modeling of hydrogeological hazards in the Saybouse basin: Implication of seismic effects | 2017 |
- | 212 | Correlations of liquefaction resistance with in-situ test results - Comparison with dynamic analysis of saturated porous media | 2017 |
- | 213 | Simulation of strong seismic motion for large earthquakes in Algeria. Example of the Boumerdes earthquake (Mw 6.8) | 2018 |
- | 214 | Analysis and mapping of border faults of Neogene basins of Constantinois: Proposal of a neotectonic model - case of the Tleghma basin | 2018 |
- | 215 | Mapping of the "landslide" hazard using probabilistic modeling at a large scale | 2018 |
- | 216 | Comparison of results from ambient vibration arrays with borehole seismics | 2018 |
- | 217 | Multidisciplinary approach to mapping the earthquake-induced flooding potential. Application in eastern Algeria (Guelma and Skikda) | 2018 |
- | 218 | Contribution to improving the seismic performance of reinforced concrete frames with masonry infill | 2018 |
- | 219 | Inventory of recent geological deformations in the Tellian chain: seismotectonic contribution and seismic hazard | 2019 |
- | 220 | Evaluation of Coda wave attenuation Q_c in the Algiers region and its surroundings | 2019 |
- | 221 | Seismic behavior of soil rupture zones (tectonic and gravitational displacements) by active and passive methods and spatial and temporal evolution | 20
- | 222 | Ground Motion Prediction Equation (GMPE) for the vertical seismic component for Algeria | 2019 |
- | 223 | Identification of substratum-free surface velocity profiles from ambient noise H/V measurements combined with geotechnical data | 2019 |
- | 224 | Seismic vulnerability of existing buildings in Algeria: Development of vulnerability functions | 2019 |
- | 225 | Ambient seismic noise tomography in the Mitidja basin | 2020 |
- | 226 | Surface ruptures of active strike-slip faults in the North Algerian region: implications for seismic microzonation | 2020 |
- | 227 | Evaluation of soil seismic vulnerability to liquefaction by ambient vibration analysis | 2020 |
- | 228 | Inventory of recent geological deformations in the Tellian chain: seismotectonic contribution and seismic hazard | 2020 |
- | 229 | Dynamic properties and liquefaction potential of sands in the Boumerdes region - Application for site seismic analyses | 2020 |
- | 230 | Experimental characterization of the cyclic behavior of cohesive soils in the Algiers region | 2020 |
- | 231 | Development of regulatory design spectra for Algeria from a regional accelerometric database | 2020 |

| 232 | Analysis of the seismic performance of self-stable reinforced concrete structures in the context of Algerian seismic regulations | 2020 |

| 233 | Development of fragility curves for bridges considering the foundation soil | 2020 |

| 234 | Probabilistic approach to free-surface seismic hazard calculation with non-ergodic consideration of site effect. Application example for real sites | 2020 |

| 235 | Instability of retaining walls under seismic action | 2021 |

| 236 | Search for neotectonic markers in the coastal regions of Béjaïa, Jijel, and Collo | 2021 |

| 237 | Neotectonics, seismotectonics, and active tectonics in the Beni Slimane Neogene basin | 2021 |

| 238 | Search for neotectonic markers in the coastal regions of Béjaïa, Jijel, and Collo | 2021 |

| 239 | Neotectonics, seismotectonics, and active tectonics in the Beni Slimane Neogene basin | 2021 |

| 240 | Investigations of the landslide induced by the Mila earthquake: Implication for Microzonation studies | 2021 |

| 241 | Dynamic characterization of site conditions for accelerometric recording stations for the deconvolution of rock acceleration | 2021 |

| 242 | Contribution to the introduction of capacity methods in future versions of the RPA | 2021 |

| 243 | Determination of the velocity model of the central region by seismic tomography | 2022 |

| 244 | Analysis of uncertainties related to the processing of seismicity in Algeria and impact on probabilistic seismic hazard studies | 2022 |

| 245 | Contribution of satellite imagery to the extraction of geological lineaments in the Béjaïa region (North-East of Algeria) | 2022 |

| 246 | Slope Scarps, Width of Tectonic Shear Zones, and Core of Active Faults: Field Evidence and Analysis by Geophysical Tools | 2022 |

| 247 | Identification of velocity profiles from ambient noise recording by inversion of HVSR spectral ratios | 2022 |

| 248 | Land instabilities in the Blida region: implication for seismic microzonation | 2022 |

| 249 | Contribution of remote sensing to seismic microzonation studies | 2022 |

| 250 | Optimal intensity measure for Algerian road bridges using fragility curves | 2022 |

| 251 | Effect of masonry infill on the global behavior factor of self-stable reinforced concrete structures in the context of regulations | 2022 |

| 252 | Experimental study of the performance of composite timber-cold-formed steel studs under axial loading | 2022 |

| 253 | Experimental and numerical evaluation of the effect of parameters influencing the seismic behavior of R.C. structures | 2022 |

| 254 | Consolidation of geological and morpho-tectonic data for reducing uncertainties in seismic hazard | 2023 |

| 255 | Indirect evidence of paleoseismicity in the Tipaza region | 2023 |

| 256 | Selection of accelerograms using the ascending hierarchical classification method | 2023 |

| 257 | Assessment of the basin effect on seismic motion amplification by empirical methods: Case of the Mitidja basin | 2023 |

| 258 | Integration of new geological and geophysical data into tectonic models of active faults | 2023 |

| 259 | Analysis of ambient vibration horizontal-to-vertical spectral ratio (HVSR) curves in evaluating site effects | 2023 |

| 260 | Seismic performance of buildings with reinforced concrete flat slabs | 2023 |

| 261 | Assessment of the resilience of constructions to earthquakes in Algeria: application to the city of Blida | 2023 |

| 262 | Experimental and numerical investigations of the dynamic response of the reaction mass of the CGS shaking table | 2023 |

| 263 | North-Algerian seismogenic zones and faults: distribution analysis in the Tellian Atlas and contribution to regulations | 2024 |

| 264 | Evalu the dynamic characterist the stands the Baraki "Nelson Mandela" stadium.comparison with vibration parameters of soil layers, by ambient vibr:

| 265 | Geological and geophysical study of the Chenoua fault | 2024 |

| 266 | Evaluations of site effects at accelerometric recording stations | 2024 |

| 267 | Intelligent design of CFS studs: a BIM-based approach | 2024 |

| 268 | Diagnosis and strengthening of reinforced concrete bridge piers | 2024 |

| 269 | Development of a strong ground motion database for earthquakes in Algeria (1985-2024) | 2025 |

| 270 | Search for traces of paleoseismicity in the Annaba and El Tarf region | 2025 |

- | 271 | New estimation of slope stability under a real accelerogram | 2025 |
- | 272 | Landslide susceptibility mapping using the Frequency Ratio (FR) method and the Analytic Hierarchy Process (AHP) method in the Annaba region | 2025
- | 273 | Evaluation and mapping of the stricto sensu landslide hazard by deterministic methods at an urban site scale | 2025 |
- | 274 | Surface ruptures and seismic folds | 2025 |
- | 275 | Geomorphology of active fault scarps in the Algiers region: field evidence and modeling | 2025 |
- | 276 | Estimation of uncertainties in seismic site response related to geophysical investigations: Application for real sites | 2025 |
- | 277 | Empirical correlations between shear wave velocities (V_s) and pressuremeter parameters (E-PI) for cohesive soils | 2025 |
- | 278 | Tsunami Hazard along the North Algerian coast: Field investigation and modeling | 2026 |
- | 279 | Neotectonics, seismotectonics, and active tectonics of the eastern part of the Beni Slimane Neogene basin Aumale earthquake (1910, Ms 6.6) | 2026 |
- | 280 | Eval of the new design approach for shear walls to RPA 2024 compared to the old method, framework of continu improvement of the Algerian seismic
- | 281 | New approach for evaluating the seismic vulnerability of structures by ambient vibration experimental analysis Pilot project | 2026 |
- | 282 | Prediction and mitigation of impacts Phase 1: Seismic startups at the urban scale: an approach based on artificial intelligence (case of the city of Tipaza)
- | 283 | Comparative Mapping of Landslide Susceptibility by Geospatial Approaches and Machine Learning: Case of the Tipaza-Cherchell Region | 2026 |
- | 284 | Development of a methodological guide for nonlinear dynamic analysis of high-rise buildings in the context of RPA 2024 | 2026 |

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