

EXHIBITION CATALOGUE

INTERNATIONAL ITINERANT EXHIBITION "RESEARCH IN BUILDING ENGINEERING EXCO'25"

INTERNATIONAL ITINERANT EXHIBITION EXCO 2025

ETS DE INGENIERÍA DE EDIFICACIÓN

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Camino de Vera S/N, 46022 Valencia – Spain

Location:

UNIVERSIDAD DE CAMAGÜEY CUBA

From October 24th to November 23rd, 2025

FACULTAD DE CONSTRUCCIONES

Carretera Circunvalación Norte, entre Avenida 26 de Julio y Camino Viejo de Nuevitas Camagüey,
74650 Cuba

Curators of Exhibition:

Dra. Riselda GUZMÁN MÉNDEZ (Local Curator)

Dr. Jorge GIRBÉS PÉREZ (Local Curator)

Dr. José Ramón ALBIOL IBÁÑEZ (International Curator)

Exhibition

XXXIX INTERNATIONAL SHOWROOM OF CONSTRUCTION TECHNOLOGIES - EXCO 2025 ©

INTERNATIONAL ITINERANT EXHIBITION "Research in Building Engineering - EXCO'25"



UNIVERSITAT
POLITÈCNICA
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ESCUELA TÉCNICA SUPERIOR
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Catalogue INTERNATIONAL ITINERANT EXHIBITION "RESEARCH IN BUILDING ENGINEERING EXCO'25"

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FOREWORD DIRECTOR EXCO'25

The Faculty of Building Engineering of the UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, organized on February 24th to 28th, 2025, "The XXXIX Construction Technology Exhibition" EXCO'25 and the International Itinerant Exhibition "Research in Building Engineering" along year, at CEVISAMA - International Fair of Valencia - SPAIN.

Conferences are scheduled in UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, the speakers are national and international of recognized prestige from Europe, Asia and America. These conferences are aimed at professionals and students of the UPV to broaden their knowledge and experiences.

EXCO'25 promotes the entrepreneurship of the young UPV generations, participation in conferences.

The International Itinerant Research Exhibition EXCO'25 has the collaboration of 63 Universities from America, Europe, Africa, Asia and Oceania. Promoting collaboration between institutions and professors at the international level.

It fosters interdisciplinary collaboration of the professor staff within the UPV with 63 International Universities; It has the participation of 9 departments and 8 research institutes of the UPV in EXCO'25.

The participating entities are:

1. Universitat Politècnica de València, España.
2. Politecnico di Milano, Italia.
3. Mimar Sinan Fines Arts University, Istanbul, Turkey.
4. Nottingham Business School, England.
5. Vilnius Gediminas Technical University, Vilnius, Lithuania.
6. Universidad de Costa Rica
7. Università degli Studi di Basilicata, Matera, Italia.
8. Universidad Tecnológica de La Habana José Antonio Echeverría, Cuba.
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10. Università di Pavia, Italia.
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12. Università di Salerno, Italia.
13. Silesian University of Technology, Politechnika Śląska, Gliwice, Poland.
14. University of British Columbia, Vancouver, Canada.
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18. Universidad de la República (UdelaR) de Uruguay.
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27. New York University, Tandon School of Engineering. USA.
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Thank you all for making EXCO possible.

All the best for EXCO'26!

Best Regards

Dr. José R. Albiol-Ibáñez

Vice Dean Digital Transformation, Business Cathedra &

Entrepreneurship Director EXCO'25

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J. Fuentes-del-Burgo / E. Navarro-Astor



1.2-SUSTAINABLE COMMUNITY DEVELOPMENT: ANALYZING THE IMPACT OF AI AND REVIT ON GREEN MATERIALS CONSTRUCTION.

Fabiola Colmenero Fonseca / Alejandro Guzmán Ramírez / Andrés Salas Montoya / Javier Cárcel Carrasco / Rut Benavente Martínez



1.3-LAST PLANNER SYSTEM IMPLEMENTATION IN A CONSTRUCTION COMPANY IN KAZAKHSTAN: A SWOT ANALYSIS.

D. Sadvokassova / N. Valverde-Gascueña / J. Fuentes-del-Burgo / E. Navarro-Astor



1.4-RELATIONSHIP BETWEEN MAINTENANCE ENGINEERING AND KNOWLEDGE MANAGEMENT.

Javier Cárcel Carrasco / Fabiola Colmenero Fonseca / Ramiro Rodríguez Pérez / José Ramón Albiol Ibañez



1.5-MAINTENANCE KNOWLEDGE MANAGEMENT MODEL BASED ON RELIABILITY, MAINTAINABILITY AND ENERGY EFFICIENCY.

Javier Cárcel-Carrasco / Andrés Salas Montoya / Adolfo Preciado Quiroz / Alejandro Guzmán Ramírez



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Javier Cárcel-Carrasco / Fidel Salas Vicente / José Ramón Albiol Ibañez / José Antonio Cárcel Carrasco



1.7-CUSTOMER PROFILE OF THE REAL ESTATE AGENT AS THE INDUSTRY GOES DIGITAL.

Juan Carlos Asensio-Soto / Elena Navarro-Astor



1.8-SYSTEMATIC LITERATURE REVIEW USING ARTIFICIAL INTELLIGENCE: REAL ESTATE MANAGEMENT WITH AI.

Maíta Morales-Prieto / Alicia Llorca-Ponce / Gregorio Rius-Sorolla

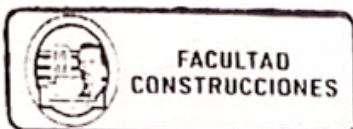


1.9-AFFORDABILITY AND SUSTAINABILITY OF SOCIAL HOUSING IN EUROPE.

María Oliver-Sanz / Alicia Llorca-Ponce



Dr. C. Risetka Guzmán Méndez
Deans Facultad Construcciones.
Universidad de Camagüey
Cuba
Guzmán



1.10-ENERGY OPTIMIZATION OF BUILDINGS THROUGH RELIABLE MODELS. RESOURCE ECONOMIZATION.

A. Esteller Agustí / A. Martínez-Ibernón / C. Aparicio-Fernández / R. Royo Pastor



1.11-OFFER ANALYSIS OF NEW CONSTRUCTION SINGLE-FAMILY HOUSES IN THE CITY OF VALENCIA, THE METROPOLITAN AREA, SELECTED MUNICIPALITIES OF THE CAMP DE TURIA AND THE MUNICIPALITY OF SAGUNTO.

Fernando Cos-Gayón López / Ángel Martín Furonés / Igor Fernández Plazaola / Kalliane Bauzá Reynaldo



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Fernando Cos-Gayón López / Ángel Martín Furonés / Igor Fernández Plazaola / Kalliane Bauzá Reynaldo



CHAPTER 2:

ENVIRONMENT

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Fabiola Colmenero Fonseca / Maria del Carmen Ixtepan Turrent / Javier Cárcel Carrasco / Juan Francisco Palomino Bernal / Ramiro Rodríguez Pérez



2.2-SOLAR CELL AS A BRIDGE BETWEEN SUSTAINABLE DEVELOPMENT AND ENERGY JUSTICE: INNOVATION FOR COMMUNITIES WITH HIGH SOLAR RADIATION.

Bruno Guadarrama Rincón / Fabiola Colmenero Fonseca / Lauren Yolanda Gómez Zamorano / Amparo Borrell



2.3-THE FUTURE OF WATER TREATMENT: INNOVATIVE ADVANCES IN CERAMIC MEMBRANE TECHNOLOGY.

Fabiola Colmenero Fonseca / Bruno Guadarrama Rincón / Amparo Borrell / Rut Benavente Martínez / María Dolores Salvador Moya



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María Eugenia Torner Feltre / Mar Cañada Soriano / Carolina Aparicio Fernández / José Luis Vivancos Bono



2.5-APPLIED TECHNOLOGIES CONSTRUCTION MATERIALS FOR HOUSES: A SOLUTION TO ENERGY EFFICIENCY.

Juan Francisco Palomino Bernal / Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Alejandro Guzmán Rodríguez / Kevin Alexander Echeverry Bucurú



2.6-RESOURCE MAPPING AND SMART GEOLOCATION: HARVEST MAP TECHNOLOGIES FOR SUSTAINABILITY, ESG GOVERNANCE AND CIRCULAR ECONOMY.

Ramiro Rodríguez Pérez / Javier Cárcel Carrasco / Fabiola Colmenero Fonseca / Juana Mercedes Perlaza Rodríguez / Kevin A. Echeverry Bucurú



2.7-EVALUATION OF THE INTERACTION BETWEEN DAYLIGHT AND OUTDOOR VIEW IN UNIVERSITY BUILDINGS: A CASE STUDY.

Giacomo Caccia / Matteo Cavaglià / Alberto Speroni / Luis Palmero Iglesias / Tiziana Poli / Andrea Giovanni Mainini



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Quiteria Angulo-Ibáñez / Aitana Puig-Rocher



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Quiteria Angulo-Ibáñez / Miriam Hernández-García



2.10-REGULATORY DEVELOPMENTS ON THE ENERGY EFFICIENCY OF BUILDINGS.

Quiteria Angulo-Ibáñez / Mercedes Almenar-Muñoz



2.11-RENEWABLE ENERGY TO DIFFERENT ACCESSIBILITY CONDITIONS, THROUGH THE WEATHER CONDITIONS.

Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Kevin Echeverry / Juan Francisco Palomino



2.12-THERMAL MONITORING AND HEATWAVE INCIDENCE OF TEMPORAL DECARBONIZATION MEASURES AND NATURE BASED SOLUTIONS IN EL GRAO NEIGHBORHOOD, CASTELLON. DIVAIRCITY PROJECT.

Amparo León Vinet / Elisa Peñalvo López / Vicente León Martínez / Iván Valencia Salazar



2.13-GREEN ROOF ENERGY IMPACT ANALYSIS ON A CLASSROOM BUILDING AT THE TECHNOLOGICAL INSTITUTE OF BOCA DEL RIO.

José-Juan Huesca-Lopez / Iván Valencia-Salazar / Elisa Peñalvo-López / Juan-David Garay-Marin / Fabiola Lango-Reynoso



2.14-RESCUING EQUITY: A COMPREHENSIVE APPROACH TO ASSESSING SOCIAL SUSTAINABILITY IN URBAN ENVIRONMENTS.

María Oliver-Sanz / Alicia Llorca-Ponce



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Ignacio Z. Carmona-Uscanga / Iván Valencia-Salazar / E. Peñalvo-López / J. David Garay-Marín / Fabiola Lango-Reynoso



2.16-IMPACT OF ARCHITECTURAL DESIGN ON THE WELLBEING OF INHABITANTS: A STUDY OF CORRELATIONS IN KEY HOUSING ELEMENTS.

María Luisa Nolé / Robi Barranco / María Pérez / J. Luis Higuera-Trujillo / Carmen Llinares



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Ida Severino / Giacomo Di Ruocco



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Ludovica Amorelli / Giacomo Di Ruocco



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2.20-HIGH TECHNOLOGY TO INTERVENE ON THE SUN. SOLAR CONTROL GLASS.

Palmero Sánchez P. / García Izquierdo, A.



2.21-LIGHT AS PRINCIPAL CONCEPT IN BENEDICTINE MONASTERY CHURCH. MODERN ARCHITECTURE IN CHILE.

Suzanne Segeur / Luis Palmero / Graziella Bernardo / Natalia Caicedo



2.22-THE REVALUATION OF THE CONTEMPORARY ART IN THE LANDSCAPE THAT HOSTS THEM: THE FIUMARA D'ARTE CASE IN THE NEBRODI NATURAL PARK.

Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias



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Luis Manuel Palmero Iglesias / María Isabel Giner García



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*M. Pérez-Martínez / M.L. Nolé / R. Barranco-Merino / J.L.
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*Robi Barranco-Merino / Juan Luis Higuera-Trujillo / Carmen
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*Robi Barranco-Merino / María Luisa Nolé Fajardo / María Pérez
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Quiteria Angulo-Ibáñez / José David Gordo-Martínez



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E. Arias-Valera1 S. Kröner / L. Osete Cortina / X. Mas-Barberà



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Luis Cortés Meseguer / Pablo Rodríguez Navarro / María Teresa Gil Piqueras / Andrea Ruggieri



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Valentina Ciaffoni / Jorge García Valldecabres / Luis Cortés Meseguer / María Concepción López González



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Valentina Ciaffoni / Jorge García Valldecabres / Luis Cortés Meseguer / María Concepción López González



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José Miguel Molines Cano / Jaime Llinares Millán / Ana Almerich Chulia / Pablo Palmero Sánchez



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E. Barelles-Vicente / J. Llinares-Millán



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E. Barelles-Vicente / J. Llinares-Millán



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Palmero Sánchez P. / García Izquierdo, A.



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Giuseppe Angileri / Ornella Fiandaca / Marina Arena / Alessandra Cernaro / Luis Palmero Iglesias



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*Giovanni Brodu / Ana Pérez Vila / Pablo Rodríguez Navarro /
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*Juana Mercedes Perlaza Rodríguez / Fabiola Colmenero Fonseca
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J.R. Lliso-Ferrando / L. Mata-Rodríguez / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / A. Martínez-Ibernón / P. Monzón-Bello / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



5.3-CURING CONDITIONS INFLUENCE ON THE DURABILITY OF REINFORCED CONCRETE. PART 2. CORROSION MONITORING.

J.R. Lliso-Ferrando / T. Yáñez Albán / J.E. Ramón-Zamora / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



5.6-CORROSION IN REINFORCED CONCRETE CONSTRUCTIONS LOCATED IN VALENCIA. CASE STUDY.

Josep Ramon Lliso-Ferrando / Ana Martínez-Ibernón / I. Gasch Molina / J. M. Gandía-Romero / Manuel Valcuende Payá / J. Soto Camino



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J.R. Lliso-Ferrando / A. Martínez-Ibernón / R. Vengut-Tro / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / A. Arenós-Barrachina / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá



5.10-CORROSION PERFORMANCE OF CONCRETES MANUFACTURED WITH DIFFERENT CEMENTS.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino



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J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino



5.16-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 2: PASSIVATING MORTAR.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá



5.12-CONCRETE RESISTIVITY ANALYSIS UNDER LABORATORY CONDITIONS ON SPECIMENS OF DIFFERENT SIZES.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá



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A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino



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A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / J.M. Gandía-Romero / M. Valcuende Payá



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J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá



5.19-ESTIMATION OF OXYGEN AVAILABILITY IN CONCRETE USING A SENSOR SYSTEM.

A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá



5.15-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 1: MORTAR USED.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá



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A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / J.M. Gandía-Romero / M. Valcuende Payá



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Benito, F.J / Fernández, A.B. / Miñano, I.B / Parra, C.J /Rodríguez, C / Carrion, E / Mateo, J.M



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A.M. Romero Sedó / P. Arrué Burillo / J.F. Romero i Miquel



5.23-VARIATION IN CORROSION RATE AFTER THE APPLICATION OF CYCLIC LOADS IN REINFORCED CONCRETE.

P. Monzón-Bello / A. Martínez-Ibernón / J.R. Lliso-Ferrando / R. Vengut-Tro



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Javier Cárcel-Carrasco / Juan Manuel Sánchez-Rodríguez / Fabiola Colmenero Fonseca / María del Carmen Ixtepan



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V. Ortiz-García / C.A. Sosa-Villalobos /G. Domínguez-Sánchez / A. Rodríguez-Andrade / E. Peñalvo-López / I. Valencia-Salazar



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Francesco Paolo R. Marino / Luís Manuel Palmero Iglesias



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Francesco Paolo R. Marino



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Suzanne Segeur / Paula Nuñez /Alan Huircaman / Luis Palmero



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Pablo Rodríguez-Navarro / Teresa Gil-Piqueras / Ana Pérez Vila / Andrea Ruggieri



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K. Essamhi-Saidi / C. José. Parra-Costa / I. De La Paz. Miñano-Belmonte / J. M. Mateo / F.J. Benito



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Ye Yinlin / Du Xu / Sun Xiaoyan / Wang Hailong



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*Gina San Andrés Zevallos / Javier Chonillo Portés / Joseph
Cedeño Palacios / Melina Villacreses López*



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Arianna Guardiola Villora / Elena Navarro Astor



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P. Arrué Burillo / A.M. Romero Sedó / J.F. Romero i Miquel



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Juan B. Font Torres / Jorge L. García Valldecabres, / Luis Cortés Meseguer



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Nadiia Yeksarova / Volodymyr Yeksarov



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Mónica Val Fiel / Marina Puyuelo Cazorla / Lola Merino Sanjuan



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Javier Rodrigo Ilarri / Aurora Martínez-Corral / Claudia-Patricia Romero-Hernández / Lucía Belenguer Espinosa / M^a Elena Rodrigo-Clavero



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Lola Merino Sanjuán / Mónica Val Fiel / Marina Puyuelo Cazorla



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Concepción López González / Pablo Ariel Escudero / Luis Cortés Meseguer / Jorge García Valldecabres



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M^a Emilia Casar Furió / M^a Jesús Romero Aloy



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M^a Jesús Romero Aloy / M^a Emilia Casar Furió / Ángel Trinidad Tornel



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Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.



6.12-THE NEED FOR PREVENTIVE ACTIONS IN BUILDING: REFLECTIONS AFTER THE DANA IN VALENCIA: REFLECTIONS AFTER THE DANA IN VALENCIA.

Martínez Beltrán, E. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.



6.13-RETHINKING EDUCATIONAL SPACES AFTER A NATURAL DISASTER, THE ISOLATED HIGH-ALTITUDE DEPRESSION.

Rodrigo Catalán, P. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Tordera Llisterrí, L.



6.14-THE GENESIS OF THE TURIA GARDEN I. RICARDO BOFILL.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri



6.15-THE GENESIS OF THE TURIA GARDEN II. RICARDO BOFILL.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri



6.16-THE CITY OF ARTS AND SCIENCES I. SANTIAGO CALATRAVA.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri



6.17-CITY OF ARTS AND SCIENCES II. SANTIAGO CALATRAVA.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri



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Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias



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Graziano Tomaselli



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*Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente
Martínez / Andrés Salas Montoya / Ramiro Rodríguez Pérez*



7.2-MATERIALES SUSTAINABLE ACADEMIC TRANSFORMATION IN THE UNIVERSITIES OF THE FUTURE: SOLID-STATE ELECTROLYTES AND COLDJE IN MATERIALS CHEMISTRY.

*Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente
Martín / Alejandro Guzmán Ramírez / Laurent Yolanda Gómez
Zamorano*



7.3-PRIORITIES IN HOME BUYING: THE IMPACT OF ACTIVE BUYERS' INVOLVEMENT ON THE PERCEPTION AND EVALUATION OF HOMES.

*María Luisa Nolé / Carla de Juan / Antoni Montañana / Carmen
Llinares*



7.4-INTEGRATION OUTDOOR SHELTERS IN THE CITY FOR HOMELESS PEOPLE. BUILDING HUMAN PROTECTION, COEXISTENCE AND LANDSCAPE.

Marina Puyuelo Cazorla / Lola Merino Sanjuan / Mónica Val Fiel



7.5-ENHANCEMENT OF LOCAL SUPPLY CHAINS FOR SUSTAINABLE DEVELOPMENT: WATAMU, KENYA.

Stefania De Gregorio



7.6-TRAUMA-INFORMED ARCHITECTURAL DESIGN POST-CATASTROPHE: REFLECTIONS AFTER THE DANA IN VALENCIA.

*De-Juan-Ripoll, C. / Calabuig Montesinos, V. / Martínez Beltrán,
E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí,
L.*



7.7-DANA OCTOBER 2024. TRIBUTE TO COLLECTIVE RESILIENCE AND SOLIDARITY IN THE FACE OF POLITICAL INCOMPETENCE.

*Palmero Iglesias, L. / Calabuig Montesinos, V. / De-Juan-Ripoll,
C. / Martínez Beltrán, E. / Rodrigo Catalán, P. / Tordera Llisterrí,
L.*



7.8-THE AUTEUR SOCIAL HOUSING FROM THE STUDY OF THE ORIGINAL DESIGN TO THE ENERGY REQUALIFICATION.

*Giuseppe Angileri / Graziella Bernardo / Giuseppina Currò /
Giovanni Francesco Russo / Luis Palmero Iglesias*



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