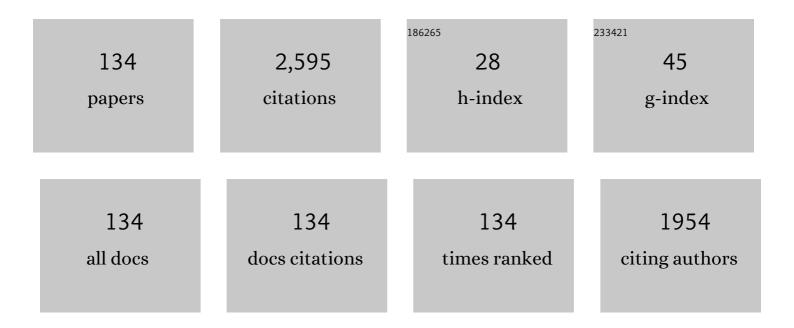
Jj Del Coz-DÃ-az

List of Publications by Year in descending order

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ILDEL COZ-DÃAZ

#	Article	IF	CITATIONS
1	Directional characterisation of annual and temporary exposure to rainwater penetration on building façades throughout Mexico. Building and Environment, 2022, 212, 108837.	6.9	2
2	An alternative approach to estimate any subdaily extreme of rainfall and wind from usually available records. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1819-1833.	4.0	3
3	Experimental and numerical analyses of rounded dovetail timber connections (RDC) under fire conditions. Engineering Structures, 2021, 228, 111535.	5.3	2
4	Thermal Performance Optimization of Lightweight Concrete/EPS Layered Composite Building Blocks. International Journal of Thermophysics, 2021, 42, 1.	2.1	12
5	Thermal Inertia Characterization of Multilayer Lightweight Walls: Numerical Analysis and Experimental Validation. Applied Sciences (Switzerland), 2021, 11, 5008.	2.5	7
6	Assessment of Lightweight Concrete Thermal Properties at Elevated Temperatures. Applied Sciences (Switzerland), 2021, 11, 10023.	2.5	7
7	Lamellae of waste beverage packaging (Tetra Pak) and gamma radiation as tools for improvement of concrete. Case Studies in Construction Materials, 2020, 12, e00315.	1.7	4
8	Waste tire rubber particles modified by gamma radiation and their use as modifiers of concrete. Case Studies in Construction Materials, 2020, 12, e00321.	1.7	23
9	A New Methodology to Design Sustainable Archimedean Screw Turbines as Green Energy Generators. International Journal of Environmental Research and Public Health, 2020, 17, 9236.	2.6	7
10	Equivalence between the methods established by ISO 15927-3 to determine wind-driven rain exposure: Reanalysis and improvement proposal. Building and Environment, 2020, 174, 106777.	6.9	6
11	Avoiding the need to directionally determine the exposure to rainwater penetration for fa§ade designs. Building and Environment, 2020, 176, 106850.	6.9	4
12	Improvement of a functional method to determine the design thermal transmittance of building faAsades. Implementation in southern Spain. Journal of Building Engineering, 2020, 30, 101231.	3.4	2
13	Comparative study of LightWeight and Normal Concrete composite slabs behaviour under fire conditions. Engineering Structures, 2020, 207, 110196.	5.3	17
14	Recovery and Reuse of Waste Tetra Pak Packages by Using a Novel Treatment. , 2019, , 303-341.		5
15	Waste polymers and gamma radiation on the mechanical improvement of polymer mortars: Experimental and calculated results. Case Studies in Construction Materials, 2019, 11, e00273.	1.7	4
16	Modified recycled tire fibers by gamma radiation and their use on the improvement of polymer concrete. Construction and Building Materials, 2019, 204, 327-334.	7.2	13
17	Frequency domain characterization of torque in tumbling ball mills using DEM modelling: Application to filling level monitoring. Powder Technology, 2018, 323, 433-444.	4.2	21
18	On the significance of the climate-dataset time resolution in characterising wind-driven rain and simultaneous wind pressure. Part I: scalar approach. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1783-1797.	4.0	5

#	Article	IF	CITATIONS
19	On the significance of the climate-dataset time resolution in characterising wind-driven rain and simultaneous wind pressure. Part II: directional analysis. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1799-1815.	4.0	10
20	Finite Element Analysis of Composite Laminated Timber (CLT). Proceedings (mdpi), 2018, 2, .	0.2	3
21	Polymer waste materials as fillers in polymer mortars: experimental and finite elements simulation. Case Studies in Construction Materials, 2018, 9, e00178.	1.7	7
22	Assessment of water penetration risk in building facades throughout Brazil. Building Research and Information, 2017, 45, 492-507.	3.9	13
23	Performance analysis of wind fence models when used for truck protection under crosswind through numerical modeling. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 20-31.	3.9	9
24	Recycled cellulose from Tetra Pak packaging as reinforcement of polyester based composites. Construction and Building Materials, 2017, 157, 1018-1023.	7.2	21
25	Numerical simulation of bus aerodynamics on several classes of bridge decks. Engineering Applications of Computational Fluid Mechanics, 2017, 11, 435-449.	3.1	9
26	Novel Technologies and Applications for Construction Materials 2016. Advances in Materials Science and Engineering, 2017, 2017, 1-2.	1.8	0
27	AJUSTE DE LA CONDUCTIVIDAD TÉRMICA DE DISEÑO FIJADA POR EL CÓDIGO TÉCNICO DE LA EDIFICACIÓ PARA MATERIALES DE FACHADA. Dyna (Spain), 2017, 92, 195-201.	N _{0.2}	1
28	A novel lightweight gypsum composite with diatomite and polypropylene fibers. Construction and Building Materials, 2016, 113, 732-740.	7.2	89
29	Flexible membranes anchored to the ground for slope stabilisation: Numerical modelling of soil slopes using SPH. Computers and Geotechnics, 2016, 78, 1-10.	4.7	13
30	Nuevo método de lanzamiento y sistema de empuje de puentes metálicos. Bases conceptuales. Hormigon Y Acero, 2015, 66, 151-163.	0.2	0
31	Quantitative analysis of the divergence in energy losses allowed through building envelopes. Renewable and Sustainable Energy Reviews, 2015, 49, 1000-1008.	16.4	14
32	Improvement alternatives for determining the watertightness performance of building facades. Building Research and Information, 2015, 43, 723-736.	3.9	7
33	Detailed territorial estimation of design thermal conductivity for façade materials in North-Eastern Spain. Energy and Buildings, 2015, 102, 266-276.	6.7	20
34	A correction factor to approximate the design thermal conductivity of building materials. Application to Spanish façades. Energy and Buildings, 2015, 88, 153-164.	6.7	30
35	Patch loading in slender and high depth steel panels: FEM–DOE analyses and bridge launching application. Engineering Structures, 2015, 83, 74-85.	5.3	10
36	Revisión y mejora de la caracterización del grado de impermeabilidad requerido por el CTE DB-HS1 para fachadas de edificación. Informes De La Construccion, 2015, 67, e059.	0.3	2

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37	Novel Technologies and Applications for Construction Materials. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.8	3
38	Improvement of a System for Catchment, Pretreatment, and Treatment of Runoff Water Using PIV Tests and Numerical Simulation. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, 04014028.	1.0	3
39	A comparison of methods for determining watertightness test parameters of building façades. Building and Environment, 2014, 78, 145-154.	6.9	12
40	Review of international regulations governing the thermal insulation requirements of residential buildings and the harmonization of envelope energy loss. Renewable and Sustainable Energy Reviews, 2014, 34, 78-90.	16.4	60
41	A comparative modeling study to estimate wear of concrete. Neural Computing and Applications, 2014, 24, 649-662.	5.6	2
42	New mechanism for continuous and bidirectional displacement of heavy structures: Design and analysis. Automation in Construction, 2014, 44, 47-55.	9.8	4
43	Properties of gypsum composites containing vermiculite and polypropylene fibers: Numerical and experimental results. Energy and Buildings, 2014, 70, 135-144.	6.7	105
44	Procedure for a detailed territorial assessment of wind-driven rain and driving-rain wind pressure and its implementation to three Spanish regions. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 128, 76-89.	3.9	10
45	Hygrothermal study of lightweight concrete hollow bricks: A new proposed experimental–numerical method. Energy and Buildings, 2014, 70, 194-206.	6.7	32
46	The use of response surface methodology to improve the thermal transmittance of lightweight concrete hollow bricks by FEM. Construction and Building Materials, 2014, 52, 331-344.	7.2	50
47	Thermal performance optimization of hollow clay bricks made up of paper waste. Energy and Buildings, 2014, 75, 96-108.	6.7	119
48	Bridge–structure interaction analysis of a new bidirectional and continuous launching bridge mechanism. Engineering Structures, 2014, 59, 298-307.	5.3	6
49	New launching method for steel bridges based on a self-supporting deck system: FEM and DOE analyses. Automation in Construction, 2014, 44, 183-196.	9.8	11
50	APLICACIÓN AL CÓDIGO TÉCNICO DE LA EDIFICACIÓN DE AVANCES EN EL ESTUDIO DE LA EXPOSICIÓN A L HUMEDAD DE FACHADAS. Dyna (Spain), 2014, 89, 440-448.	A _{0.2}	0
51	Global analysis of building façade exposure to water penetration in Chile. Building and Environment, 2013, 70, 284-297.	6.9	16
52	Nonlinear analysis of the pressure field in industrial buildings with curved metallic roofs due to the wind effect by FEM. Applied Mathematics and Computation, 2013, 221, 202-213.	2.2	2
53	Static behavior of compressed braces in RHS K-joints of hot-dip galvanized trusses. Journal of Constructional Steel Research, 2013, 89, 307-316.	3.9	5
54	Hygrothermal properties of lightweight concrete: Experiments and numerical fitting study. Construction and Building Materials, 2013, 40, 543-555.	7.2	49

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55	Combined use of wind-driven rain and wind pressure to define water penetration risk into building façades: The Spanish case. Building and Environment, 2013, 64, 46-56.	6.9	42

A SVM-based regression model to study the air quality at local scale in Oviedo urban area (Northern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5

57	Optimised method for estimating directional driving rain from synoptic observation data. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 113, 1-11.	3.9	13
58	Field measurements of anchored flexible systems for slope stabilisation: Evidence of passive behaviour. Engineering Geology, 2013, 153, 95-104.	6.3	16
59	Non-linear numerical analysis of plywood board timber connections by DOE-FEM and full-scale experimental validation. Engineering Structures, 2013, 49, 76-90.	5.3	18
60	Study of different grouting materials used in vertical geothermal closed-loop heat exchangers. Applied Thermal Engineering, 2013, 50, 159-167.	6.0	60
61	A new method for determining the water tightness of building facades. Building Research and Information, 2013, 41, 401-414.	3.9	16
62	An extended method for comparing watertightness tests for facades. Building Research and Information, 2013, 41, 706-721.	3.9	12
63	Collapse of a Masonry Wall in an Industrial Building: Diagnosis by Numerical Modeling. Journal of Performance of Constructed Facilities, 2013, 27, 65-76.	2.0	11
64	Education for Sustainable Development: Methodology and Application within a Construction Course. Journal of Professional Issues in Engineering Education and Practice, 2013, 139, 72-79.	0.9	4
65	Effects of elevated temperatures on mechanical properties of concrete containing haematite evaluated using fuzzy logic model. Materials Research Innovations, 2013, 17, 382-391.	2.3	8
66	Experimental and numerical analysis of new bricks made up of polymer modified-cement using expanded vermiculite. Computers and Concrete, 2013, 12, 319-335.	0.7	15
67	Optimization Based on Design of Experiments (DOE) Using Finite Element Model (FEM) Analysis Applied to Retrofitting the Church of Baldornon, Spain. International Journal of Architectural Heritage, 2012, 6, 436-451.	3.1	3
68	Non-linear thermal analysis of the efficiency of light concrete big-holed bricks by FEM. , 2012, , .		0
69	Non-linear analysis and calculation of the performance of a shelving protection system by FEM. , 2012, , .		0
70	Estimation of the exposure of buildings to driving rain in Spain from daily wind and rain data. Building and Environment, 2012, 57, 259-270.	6.9	42
71	Numerical and experimental study of a new type of clip for joining cables. Engineering Structures, 2012, 44, 107-121.	5.3	4
72	Nonlinear buckling and failure analysis of a self-weighted metallic roof with and without skylights by FEM. Engineering Failure Analysis, 2012, 26, 65-80.	4.0	14

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73	Non-linear thermal analysis of the efficiency of light concrete multi-holed bricks with large recesses by FEM. Applied Mathematics and Computation, 2012, 218, 10040-10049.	2.2	19
74	Effect of the vent hole geometry and welding on the static strength of galvanized RHS K-joints by FEM and DOE. Engineering Structures, 2012, 41, 218-233.	5.3	12
75	CALIDAD DE AIRE INTERIOR Y EFICIENCIA ENERGÉTICA. Dyna (Spain), 2012, 87, 74-79.	0.2	1
76	Stabilization of sludge from earth pressure balance for use in earth embankments. Applied Clay Science, 2011, 53, 533-537.	5.2	3
77	Flexible systems anchored to the ground for slope stabilisation: Critical review of existing design methods. Engineering Geology, 2011, 122, 129-145.	6.3	27
78	Non-linear analysis and calculation of the performance of a shelving protection system by FEM. Applied Mathematics and Computation, 2011, 218, 2365-2376.	2.2	1
79	Application of an SVM-based regression model to the air quality study at local scale in the Avilés urban area (Spain). Mathematical and Computer Modelling, 2011, 54, 1453-1466.	2.0	118
80	Nonlinear thermal analysis of multi-holed lightweight concrete blocks used in external and non-habitable floors by FEM. International Journal of Heat and Mass Transfer, 2011, 54, 533-548.	4.8	31
81	Non-linear hygrothermal failure analysis of an external clay brick wall by FEM – A case study. Construction and Building Materials, 2011, 25, 4454-4464.	7.2	18
82	Steady state numerical simulation of the particle collection efficiency of a new urban sustainable gravity settler using design of experiments by FVM. Applied Mathematics and Computation, 2011, 217, 8166-8178.	2.2	4
83	Design and shape optimization of a new type of hollow concrete masonry block using the finite element method. Engineering Structures, 2011, 33, 1-9.	5.3	39
84	Stiffness of the component †lateral faces of RHS' at high temperature. Journal of Constructional Steel Research, 2011, 67, 1835-1842.	3.9	13
85	Classification and Comparison of Snow Fences for the Protection of Transport Infrastructures. Journal of Cold Regions Engineering - ASCE, 2011, 25, 162-181.	1.1	10
86	Analysis and thermal optimization of an ecological ventilated self-weighted wood panel for roofs by FVM. Meccanica, 2010, 45, 619-634.	2.0	1
87	Optimization of an acoustic test chamber involving theÂfluid-structure interaction by FEM and experimental validation. Meccanica, 2010, 45, 705-722.	2.0	2
88	A FEM comparative analysis of the thermal efficiency among floors made up of clay, concrete and lightweight concrete hollow blocks. Applied Thermal Engineering, 2010, 30, 2822-2826.	6.0	34
89	Non-linear buckling analysis of a self-weighted metallic roof by FEM. Mathematical and Computer Modelling, 2010, 51, 216-228.	2.0	21
90	The use of design of experiments to improve a neural network model in order to predict the thickness of the chromium layer in a hard chromium plating process. Mathematical and Computer Modelling, 2010, 52, 1169-1176.	2.0	52

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91	Nonlinear explicit analysis and study of the behaviour of a new ring-type brake energy dissipator by FEM and experimental comparison. Applied Mathematics and Computation, 2010, 216, 1571-1582.	2.2	11
92	Comparative analysis of TIG welding distortions between austenitic and duplex stainless steels by FEM. Applied Thermal Engineering, 2010, 30, 2448-2459.	6.0	47
93	Sound transmission loss analysis through a multilayer lightweight concrete hollow brick wall by FEM and experimental validation. Building and Environment, 2010, 45, 2373-2386.	6.9	25
94	Numerical simulation of the performance of a snow fence with airfoil snow plates by FVM. Journal of Computational and Applied Mathematics, 2010, 234, 1200-1210.	2.0	23
95	A study of the collapse of a WWII communications antenna using numerical simulations based on design of experiments by FEM. Engineering Structures, 2010, 32, 1792-1800.	5.3	32
96	A data-driven manufacturing support system for rubber extrusion lines. International Journal of Production Research, 2010, 48, 2219-2231.	7.5	3
97	Numerical Study of Pressure Field in Laterally Closed Industrial Buildings with Curved Metallic Roofs due to the Wind Effect by FEM and European Rule Comparison. , 2009, , .		0
98	Non-linear analysis of cable networks by FEM and experimental validation. International Journal of Computer Mathematics, 2009, 86, 301-313.	1.8	13
99	Analysis and study of an automobile rear seat by FEM. International Journal of Computer Mathematics, 2009, 86, 640-664.	1.8	1
100	Comparative Analysis of Mechanical Tensile Tests and the Explicit Simulation of a Brake Energy Dissipater by FEM. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	9
101	Numerical analysis of the pressure field on curved and open self-weighted metallic roofs due to the wind effect by the finite volume method. Applied Mathematics and Computation, 2009, 209, 31-41.	2.2	6
102	Thermal design optimization of lightweight concrete blocks for internal one-way spanning slabs floors by FEM. Energy and Buildings, 2009, 41, 1276-1287.	6.7	58
103	Nonlinear analysis of residual stresses in a rail manufacturing process by FEM. Applied Mathematical Modelling, 2009, 33, 34-53.	4.2	39
104	Estudio comparativo experimental del comportamiento de uniones de cumbrera en cubiertas de madera laminada encolada con placas interiores de acero o tablero contrachapado de abedul. Materiales De Construccion, 2009, 59, 45-59.	0.7	2
105	Evaluation of the resistant capacity of cable nets using the finite element method and experimental validation. Engineering Geology, 2008, 100, 1-10.	6.3	46
106	Finite element analysis of thin-walled composite two-span wood-based loadbearing stressed skin roof panels and experimental validation. Thin-Walled Structures, 2008, 46, 276-289.	5.3	8
107	Non-linear thermal optimization and design improvement of a new internal light concrete multi-holed brick walls by FEM. Applied Thermal Engineering, 2008, 28, 1090-1100.	6.0	59
108	Numerical analysis of the influence of material mismatching in the transition curve of welded joints. Engineering Fracture Mechanics, 2008, 75, 3464-3482.	4.3	12

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109	Nonlinear thermal optimization of external light concrete multi-holed brick walls by the finite element method. International Journal of Heat and Mass Transfer, 2008, 51, 1530-1541.	4.8	63
110	Finite element analysis of the hyper-elastic contact problem in automotive door sealing. Journal of Non-Crystalline Solids, 2008, 354, 5331-5333.	3.1	9
111	Finite volume modeling of the non-isothermal flow of a non-Newtonian fluid in a rubber's extrusion die. Journal of Non-Crystalline Solids, 2008, 354, 5334-5336.	3.1	12
112	Implementation of an elastic–viscoplastic ductile model for the numerical simulation of the ductile crack growth in notched tensile and Charpy impact tests. International Journal of Computer Mathematics, 2008, 85, 587-601.	1.8	0
113	Mathematical study of the selective removal of different classes of atmospheric aerosols by coagulation, condensation, and gravitational settling, and the health impact. International Journal of Computer Mathematics, 2008, 85, 447-460.	1.8	0
114	A model for defining evacuation policies for emergency escape from buildings. International Journal for Simulation and Multidisciplinary Design Optimization, 2008, 2, 237-244.	1.1	1
115	Evaluation of the damage in the vault and portico of the pre-Romanesque chapel of San Salvador de Valdediós using frictional contacts and the finite-element method. International Journal of Computer Mathematics, 2007, 84, 377-393.	1.8	10
116	Acoustic Analysis of a Sandwich Non Metallic Panel for Roofs by FEM and Experimental Validation. AIP Conference Proceedings, 2007, , .	0.4	2
117	Computer simulation of the laminar nozzle flow of a non-Newtonian fluid in a rubber extrusion process by the finite volume method and experimental comparison. Journal of Non-Crystalline Solids, 2007, 353, 981-983.	3.1	18
118	Non-linear analysis of a reinforced concrete sheet cover (umbrella) of 40m diameter by the finite element method. Applied Mathematics and Computation, 2007, 184, 37-51.	2.2	7
119	Non-linear analysis and warping of tubular pipe conveyors by the finite element method. Mathematical and Computer Modelling, 2007, 46, 95-108.	2.0	22
120	Non-linear analysis of the tubular †heart' joint by FEM and experimental validation. Journal of Constructional Steel Research, 2007, 63, 1077-1090.	3.9	25
121	Analysis and optimization of the heat-insulating light concrete hollow brick walls design by the finite element method. Applied Thermal Engineering, 2007, 27, 1445-1456.	6.0	113
122	A Mathematical Approach to Selective Scavenging of the Different Classes of Typical Atmospheric Aerosols by Rainout and Health Impact. Environmental Technology (United Kingdom), 2006, 27, 337-348.	2.2	6
123	Numerical analysis of pressure field on curved self-weighted metallic roofs due to the wind effect by the finite element method. Journal of Computational and Applied Mathematics, 2006, 192, 40-50.	2.0	10
124	Non-linear thermal analysis of light concrete hollow brick walls by the finite element method and experimental validation. Applied Thermal Engineering, 2006, 26, 777-786.	6.0	63
125	Implicit integration procedure for viscoplastic Gurson materials. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6146-6157.	6.6	14
126	Design optimization of 3D steel structures: Genetic algorithms vs. classical techniques. Journal of Constructional Steel Research, 2006, 62, 1303-1309.	3.9	54

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127	Non-linear analysis of unbolted base plates by the FEM and experimental validation. Thin-Walled Structures, 2006, 44, 529-541.	5.3	28
128	A modified elitist genetic algorithm applied to the design optimization of complex steel structures. Journal of Constructional Steel Research, 2005, 61, 265-280.	3.9	41
129	Numerical Analysis of the Behaviour of Tooth Intrarradial Posts by the Finite Element Method. Mathematical Modelling and Algorithms, 2005, 4, 275-287.	0.5	3
130	Design and finite element analysis of a wet cycle cement rotary kiln. Finite Elements in Analysis and Design, 2002, 39, 17-42.	3.2	29
131	Aprendizaje interactivo mediante programa de análisis estructural avanzado. Journal of Constructional Steel Research, 1998, 46, 273-274.	3.9	5
132	Assessment of the Resistance of Steel K-joints between Rectangular Hollow Sections with Galvanizing Holes using the Finite Element Method. , 0, , .		1
133	Non-linear Analysis of the Soil-Structure Interaction of Baldornon's Church, Spain using the Finite Element Method. , 0, , .		Ο
134	Damage Assessment of a Self-Weight Metallic Roof with Skylights using the Finite Element Method. , 0, , .		0