

# Cãsar Medina Martãnez

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

3,071  
citations

159358

30  
h-index

161609

54  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1902  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Durability of concrete bearing polymer-treated mixed recycled aggregate. Construction and Building Materials, 2022, 315, 125781.   | 3.2 | 14        |
| 2  | Fillers and additions from industrial waste for recycled aggregate concrete. , 2022, , 105-143.  |     | 2         |
| 3  | The Influence of Fly Ash on the Mechanical Performance of Cementitious Materials Produced with Recycled Cement. Applied Sciences (Switzerland), 2022, 12, 2257.  | 1.3 | 10        |
| 4  | Report of RILEM TC 281-CCC: outcomes of a round robin on the resistance to accelerated carbonation of Portland, Portland-fly ash and blast-furnace blended cements. Materials and Structures/Materiaux Et Constructions, 2022, 55, 99. | 1.3 | 10        |
| 5  | Durability of eco-efficient binary cement mortars based on ichu ash: Effect on carbonation and chloride resistance. Cement and Concrete Composites, 2022, 131, 104608.   | 4.6 | 5         |
| 6  | Industrial waste from biomass-fired electric power plants as alternative pozzolanic material. , 2021, , 243-282.   |     | 1         |
| 7  | Assessment of the Permeability to Aggressive Agents of Concrete with Recycled Cement and Mixed Recycled Aggregate. Applied Sciences (Switzerland), 2021, 11, 3856.   | 1.3 | 10        |
| 8  | Water transport and shrinkage in concrete made with ground recycled concrete-added cement and mixed recycled aggregate. Cement and Concrete Composites, 2021, 118, 103957.   | 4.6 | 45        |
| 9  | Quantitative Comparison of Binary Mix of Agro-Industrial Pozzolanic Additions for Elaborating Ternary Cements: Kinetic Parameters. Materials, 2021, 14, 2944.  | 1.3 | 4         |
| 10 | Resonance Fatigue Behaviour of Concretes with Recycled Cement and Aggregate. Applied Sciences (Switzerland), 2021, 11, 5045.   | 1.3 | 4         |
| 11 | Use of recycled coarse and fine aggregates in structural eco-concretes. Physical and mechanical properties and CO2 emissions. Construction and Building Materials, 2021, 285, 122926.  | 3.2 | 44        |
| 12 | Durability of Ternary Cements Based on New Supplementary Cementitious Materials from Industrial Waste. Applied Sciences (Switzerland), 2021, 11, 5977.   | 1.3 | 1         |
| 13 | Properties of concretes bearing mixed recycled aggregate with polymer-modified surfaces. Journal of Building Engineering, 2021, 38, 102211.  | 1.6 | 13        |
| 14 | The Design and Development of Recycled Concretes in a Circular Economy Using Mixed Construction and Demolition Waste. Materials, 2021, 14, 4762.   | 1.3 | 14        |
| 15 | Exploring sulphate resistance of coal mining waste blended cements through experiments and thermodynamic modelling. Cement and Concrete Composites, 2021, 121, 104086.   | 4.6 | 11        |
| 16 | Modeling the interfacial transition zone between recycled aggregates and industrial waste in cementitious matrix. , 2021, , 3-27.  |     | 1         |
| 17 | Carbonation of concrete with construction and demolition waste based recycled aggregates and cement with recycled content. Construction and Building Materials, 2020, 234, 117336.   | 3.2 | 59        |
| 18 | Water transport mechanisms in concretes bearing mixed recycled aggregates. Cement and Concrete Composites, 2020, 107, 103486.  | 4.6 | 31        |

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|----|--|-----|-----------|
| 19 | Sulfate Resistance in Cements Bearing Ornamental Granite Industry Sludge. <i>Materials</i> , 2020, 13, 4081.   | 1.3 | 6         |
| 20 | Mechanical behaviour of structural concrete with ground recycled concrete cement and mixed recycled aggregate. <i>Journal of Cleaner Production</i> , 2020, 275, 122913.   | 4.6 | 69        |
| 21 | Understanding the carbonation of concrete with supplementary cementitious materials: a critical review by RILEM TC 281-CCC. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.                | 1.3 | 123       |
| 22 | Sulfate Resistance in Cements Bearing Bottom Ash from Biomass-Fired Electric Power Plants. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8982.   | 1.3 | 2         |
| 23 | Industrial Low-Clinker Precast Elements Using Recycled Aggregates. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6655.   | 1.3 | 9         |
| 24 | Thermal Performance of Concrete with Recycled Concrete Powder as Partial Cement Replacement and Recycled CDW Aggregate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4540.                                      | 1.3 | 22        |
| 25 | Freeze-thaw resistance of concrete containing mixed aggregate and construction and demolition waste-added cement in water and de-icing salts. <i>Construction and Building Materials</i> , 2020, 259, 119772.        | 3.2 | 19        |
| 26 | Construction and demolition waste applications and maximum daily output in Spanish recycling plants. <i>Waste Management and Research</i> , 2020, 38, 423-432.   | 2.2 | 13        |
| 27 | Fired clay-based construction and demolition waste as pozzolanic addition in cements. Design of new eco-efficient cements. <i>Journal of Cleaner Production</i> , 2020, 265, 121610.                                 | 4.6 | 34        |
| 28 | Durability and chromatic behavior in cement pastes containing ceramic industry milling and glazing by-products. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1971-1981.                               | 1.9 | 9         |
| 29 | Design and properties of eco-friendly binary mortars containing ash from biomass-fuelled power plants. <i>Cement and Concrete Composites</i> , 2019, 104, 103372.  | 4.6 | 25        |
| 30 | Water transport in binary eco-cements containing coal mining waste. <i>Cement and Concrete Composites</i> , 2019, 104, 103373.   | 4.6 | 22        |
| 31 | Inclusion of construction and demolition waste as a coarse aggregate and a cement addition in structural concrete design. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 1338-1352.                 | 1.9 | 40        |
| 32 | Use of biomass-fired power plant bottom ash as an addition in new blended cements: Effect on the structure of the C-S-H gel formed during hydration. <i>Construction and Building Materials</i> , 2019, 228, 117081. | 3.2 | 16        |
| 33 | Energy performance and calorimetric behaviour of cements bearing granite sludge. <i>Powder Technology</i> , 2019, 356, 517-527.  | 2.1 | 9         |
| 34 | Durability of new blended cements added with recycled biomass bottom ASH from electric power plants. <i>Construction and Building Materials</i> , 2019, 225, 429-440.  | 3.2 | 28        |
| 35 | Reuse of coal mining waste to lengthen the service life of cementitious matrices. <i>Cement and Concrete Composites</i> , 2019, 99, 72-79.   | 4.6 | 26        |
| 36 | Meso-structural modelling in recycled aggregate concrete. , 2019, , 453-476.   |     | 3         |

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|----|---|-----|-----------|
| 37 | Effect of Granite Waste on Binary Cement Hydration and Paste Performance: Statistical Analysis. <i>ACI Materials Journal</i> , 2019, 116, .   | 0.3 | 3         |
| 38 | Influence of curing conditions on recycled aggregate concrete. <i>Construction and Building Materials</i> , 2018, 172, 618-625.   | 3.2 | 60        |
| 39 | Use of ceramic industry milling and glazing waste as an active addition in cement. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2028-2037.   | 1.9 | 23        |
| 40 | Evaluation of chloride transport in blended cement mortars containing coal mining waste. <i>Construction and Building Materials</i> , 2018, 190, 200-210.   | 3.2 | 24        |
| 41 | Design and characterisation of ternary cements containing rice husk ash and fly ash. <i>Construction and Building Materials</i> , 2018, 187, 65-76.   | 3.2 | 37        |
| 42 | Statistically significant effects of mixed recycled aggregate on the physical-mechanical properties of structural concretes. <i>Construction and Building Materials</i> , 2018, 185, 93-101.                | 3.2 | 47        |
| 43 | Use of clay-based construction and demolition waste as additions in the design of new low and very low heat of hydration cements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1. | 1.3 | 13        |
| 44 | Durability of new recycled granite quarry dust-bearing cements. <i>Construction and Building Materials</i> , 2018, 187, 414-425.  | 3.2 | 38        |
| 45 | Activation temperature-mediated mineralogical transformations in slate quarry sludge: Pozzolanic properties. <i>Construction and Building Materials</i> , 2018, 187, 819-829.                               | 3.2 | 12        |
| 46 | Granite quarry waste as a future eco-efficient supplementary cementitious material (SCM): Scientific and technical considerations. <i>Journal of Cleaner Production</i> , 2017, 148, 467-476.               | 4.6 | 98        |
| 47 | Properties of interfacial transition zones (ITZs) in concrete containing recycled mixed aggregate. <i>Cement and Concrete Composites</i> , 2017, 81, 25-34.   | 4.6 | 199       |
| 48 | Characterisation and valorisation of biomass waste as a possible addition in eco-cement design. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.                                   | 1.3 | 27        |
| 49 | Mineralogical study of granite waste in a pozzolan/Ca(OH) <sub>2</sub> system: Influence of the activation process. <i>Applied Clay Science</i> , 2017, 135, 362-371.                                       | 2.6 | 40        |
| 50 | Characterization of Ceramic-Based Construction and Demolition Waste: Use as Pozzolan in Cements. <i>Journal of the American Ceramic Society</i> , 2016, 99, 4121-4127.                                      | 1.9 | 52        |
| 51 | Clay-based construction and demolition waste as a pozzolanic addition in blended cements. Effect on sulfate resistance. <i>Construction and Building Materials</i> , 2016, 127, 950-958.                    | 3.2 | 37        |
| 52 | New additions for eco-efficient cement design. Impact on calorimetric behaviour and comparison of test methods. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 4595-4607.           | 1.3 | 22        |
| 53 | Mineralogy and Microstructure of Hydrated Phases During the Pozzolanic Reaction in the Sanitary Ware Waste/Ca(OH) <sub>2</sub> System. <i>Journal of the American Ceramic Society</i> , 2016, 99, 340-348.  | 1.9 | 29        |
| 54 | Durability of recycled concrete made with recycled ceramic sanitary ware aggregate. Inter-indicator relationships. <i>Construction and Building Materials</i> , 2016, 105, 480-486.                         | 3.2 | 95        |

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|----|--|-----|-----------|
| 55 | Effect of the constituents (asphalt, clay materials, floating particles and fines) of construction and demolition waste on the properties of recycled concretes. <i>Construction and Building Materials</i> , 2015, 79, 22-33. | 3.2 | 84        |
| 56 | Assessment of Construction and Demolition Waste plant management in Spain: in pursuit of sustainability and eco-efficiency. <i>Journal of Cleaner Production</i> , 2015, 90, 16-24.  | 4.6 | 85        |
| 57 | INFLUENCE OF INTERFACIAL TRANSITION ZONE ON ENGINEERING PROPERTIES OF THE CONCRETE MANUFACTURED WITH RECYCLED CERAMIC AGGREGATE. <i>Journal of Civil Engineering and Management</i> , 2014, 21, 83-93.                         | 1.9 | 32        |
| 58 | Scientific and technical aspects of blended cement matrices containing activated slate wastes. <i>Cement and Concrete Composites</i> , 2014, 48, 19-25.  | 4.6 | 22        |
| 59 | Influence of mixed recycled aggregate on the physical " mechanical properties of recycled concrete. <i>Journal of Cleaner Production</i> , 2014, 68, 216-225.  | 4.6 | 233       |
| 60 | Leaching in concretes containing recycled ceramic aggregate from the sanitary ware industry. <i>Journal of Cleaner Production</i> , 2014, 66, 85-91.   | 4.6 | 30        |
| 61 | Properties of recycled ceramic aggregate concretes: Water resistance. <i>Cement and Concrete Composites</i> , 2013, 40, 21-29.   | 4.6 | 73        |
| 62 | Rheological and calorimetric behaviour of cements blended with containing ceramic sanitary ware and construction/demolition waste. <i>Construction and Building Materials</i> , 2013, 40, 822-831.                             | 3.2 | 91        |
| 63 | Freeze-thaw durability of recycled concrete containing ceramic aggregate. <i>Journal of Cleaner Production</i> , 2013, 40, 151-160.  | 4.6 | 137       |
| 64 | Effect of Temperature on $C_3S$ and $C_2S$ + Nanosilica Hydration and $C_3S$ " $S$ " $H$ Structure. <i>Journal of the American Ceramic Society</i> , 2013, 96, 957-965.  | 1.9 | 37        |
| 65 | Gas permeability in concrete containing recycled ceramic sanitary ware aggregate. <i>Construction and Building Materials</i> , 2012, 37, 597-605.  | 3.2 | 59        |
| 66 | Scientific Aspects of Kaolinite Based Coal Mining Wastes in Pozzolan/ $Ca(OH)_2$ System. <i>Journal of the American Ceramic Society</i> , 2012, 95, 386-391.   | 1.9 | 65        |
| 67 | Reuse of sanitary ceramic wastes as coarse aggregate in eco-efficient concretes. <i>Cement and Concrete Composites</i> , 2012, 34, 48-54.  | 4.6 | 177       |
| 68 | Effect of activated coal mining wastes on the properties of blended cement. <i>Cement and Concrete Composites</i> , 2012, 34, 678-683.   | 4.6 | 117       |
| 69 | Microstructure and properties of recycled concretes using ceramic sanitary ware industry waste as coarse aggregate. <i>Construction and Building Materials</i> , 2012, 31, 112-118.  | 3.2 | 171       |
| 70 | Reparaci3n de revocos de morteros. Nuevos documentos normativos de AENOR. <i>Informes De La Construcci3n</i> , 2012, 64, 141-151.  | 0.1 | 0         |
| 71 | Estado actual de la gesti3n de residuos de construcci3n y demolici3n: limitaciones. <i>Informes De La Construcci3n</i> , 2011, 63, 89-95.  | 0.1 | 12        |
| 72 | Caracterizaci3n de los hormigones realizados con Áridos reciclados procedentes de la industria de cerÁmica sanitaria. <i>Materiales De Construcci3n</i> , 2011, 61, 533-546.   | 0.2 | 26        |