# Sonia Sanchez Saez

List of Publications by Year
in descending order

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|---|---|---|---|
| 54<br>papers | 1,887<br>citations | 257450<br>24<br>h-index | 265206<br>42<br>g-index |
| 55<br>all docs | 55<br>docs citations | 55<br>times ranked | 1415<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Compression after impact of thin composite laminates. Composites Science and Technology, 2005, 65, 1911-1919. | 7.8 | 206 |
| 2 | Modelling of composite sandwich structures with honeycomb core subjected to high-velocity impact. Composite Structures, 2010, 92, 2090-2096. | 5.8 | 163 |
| 3 | Modelling of the adhesive layer in mixed ceramic/metal armours subjected to impact. Composites Part A: Applied Science and Manufacturing, 2000, 31, 823-833. | 7.6 | 95 |
| 4 | Compressive deformation and energy-absorption capability of aluminium honeycomb core. Composite Structures, 2017, 174, 123-133. | 5.8 | 82 |
| 5 | High velocity impact behaviour of hybrid basalt-carbon/epoxy composites. Composite Structures, 2017, 168, 305-312. | 5.8 | 78 |
| 6 | Numerical modelling of the low-velocity impact response of composite sandwich beams with honeycomb core. Composite Structures, 2013, 106, 716-723. | 5.8 | 75 |
| 7 | Numerical modelling of foam-cored sandwich plates under high-velocity impact. Composite Structures, 2011, 93, 2392-2399. | 5.8 | 71 |
| 8 | Residual flexural strength after low-velocity impact in glass/polyester composite beams. Composite Structures, 2010, 92, 25-30. | 5.8 | 70 |
| 9 | Compressive residual strength at low temperatures of composite laminates subjected to low-velocity impacts. Composite Structures, 2008, 85, 226-232. | 5.8 | 67 |
| 10 | The oblique impact response of composite sandwich plates. Composite Structures, 2015, 133, 1127-1136. | 5.8 | 66 |
| 11 | FEM analysis of dynamic flexural behaviour of composite sandwich beams with foam core. Composite Structures, 2010, 92, 2285-2291. | 5.8 | 64 |
| 12 | Influence of the cohesive law shape on the composite adhesively-bonded patch repair behaviour. Composites Part B: Engineering, 2016, 91, 414-421. | 12.0 | 57 |
| 13 | A comparison of progressive-failure criteria in the prediction of the dynamic bending failure of composite laminated beams. Composite Structures, 2010, 92, 2406-2414. | 5.8 | 48 |
| 14 | Impact behaviour of preloaded glass/polyester woven plates. Composites Science and Technology, 2009, 69, 711-717. | 7.8 | 45 |
| 15 | Static behavior of CFRPs at low temperatures. Composites Part B: Engineering, 2002, 33, 383-390. | 12.0 | 39 |
| 16 | A new device for determining the compression after impact strength in thin laminates. Composite Structures, 2015, 127, 99-107. | 5.8 | 39 |
| 17 | Damage evolution in open-hole laminated composite plates subjected to in-plane loads. Composite Structures, 2015, 133, 1048-1057. | 5.8 | 38 |
| 18 | Dynamic crushing behaviour of agglomerated cork. Materials & Design, 2015, 65, 743-748. | 5.1 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Analysis of damage localization in composite laminates using a discrete damage model. Composites Part B: Engineering, 2014, 66, 224-232. | 12.0 | 37 |
| 20 | Experimental response of agglomerated cork under multi-impact loads. Materials Letters, 2015, 160, 327-330. | 2.6 | 31 |
| 21 | Experimental study of agglomerated-cork-cored structures subjected to ballistic impacts. Materials Letters, 2011, 65, 2152-2154. | 2.6 | 27 |
| 22 | Impact Load Behaviour of Resin Transfer Moulding (RTM) Hemp Fibre Composite Laminates. Journal of Biobased Materials and Bioenergy, 2009, 3, 298-310. | 0.3 | 27 |
| 23 | Analysis of the dynamic flexural behaviour of composite beams at low temperature. Composites Science and Technology, 2007, 67, 2616-2632. | 7.8 | 26 |
| 24 | Analytical study of the low-velocity impact response of composite sandwich beams. Composite Structures, 2014, 111, 459-467. | 5.8 | 26 |
| 25 | Influence of ply cluster thickness and location on matrix cracking evolution in open-hole composite laminates. Composites Part B: Engineering, 2016, 95, 40-47. | 12.0 | 24 |
| 26 | High-velocity impact behaviour of damaged sandwich plates with agglomerated cork core. Composite Structures, 2020, 248, 112520. | 5.8 | 24 |
| 27 | Nondimensional analysis of ballistic impact on thin woven laminate plates. International Journal of Impact Engineering, 2012, 39, 8-15. | 5.0 | 22 |
| 28 | Impact behavior of sandwich structures made of flax/epoxy face sheets and agglomerated cork. Journal of Natural Fibers, 2020, 17, 168-188. | 3.1 | 22 |
| 29 | Effect of adhesive thickness and overlap on the behavior of composite single-lap joints. Mechanics of Advanced Materials and Structures, 2021, 28, 1111-1120. | 2.6 | 20 |
| 30 | Dynamic analysis of bendingâ€“torsion coupled composite beams using the Flexibility Influence Function Method. International Journal of Mechanical Sciences, 2008, 50, 1611-1618. | 6.7 | 18 |
| 31 | Behaviour of uniaxially preloaded aluminium plates subjected to high-velocity impact. Mechanics Research Communications, 2011, 38, 404-407. | 1.8 | 18 |
| 32 | Matrix cracking evolution in open-hole laminates subjected to thermo-mechanical loads. Composite Structures, 2018, 183, 510-520. | 5.8 | 18 |
| 33 | Influence of ply orientation on free-edge effects in laminates subjected to in-plane loads. Composites Part B: Engineering, 2018, 153, 149-158. | 12.0 | 18 |
| 34 | Influence of areal density on the energy absorbed by thin composite plates subjected to high-velocity impacts. Journal of Strain Analysis for Engineering Design, 2012, 47, 444-452. | 1.8 | 17 |
| 35 | Experimental study of the impact behavior of repaired thin laminates with double composite patch. Mechanics of Advanced Materials and Structures, 2020, 27, 1701-1708. | 2.6 | 17 |
| 36 | The Potential of Agglomerated Cork for Sandwich Structures: A Systematic Investigation of Physical, Thermal, and Mechanical Properties. Polymers, 2019, 11, 2118. | 4.5 | 16 |

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|---|---|---|---|
| 37 | Numerical analysis of interlaminar stresses in open-hole laminates under compression. Composite Structures, 2019, 217, 89-99. | 5.8 | 14 |
| 38 | Response of pre-loaded laminate composite plates subject to high velocity impact. European Physical Journal Special Topics, 2006, 134, 1257-1263. | 0.2 | 13 |
| 39 | Analysis of the impact location on damage tolerance of bonded-repaired composite laminates. Polymer Testing, 2019, 78, 106000. | 4.8 | 11 |
| 40 | The High-Velocity Impact Behaviour of Kevlar Composite Laminates Filled with Cork Powder. Applied Sciences (Switzerland), 2020, 10, 6108. | 2.5 | 11 |
| 41 | Impact response of repaired sandwich structures. Polymer Composites, 2020, 41, 3014-3022. | 4.6 | 9 |
| 42 | Modelling of carbon/epoxy sandwich panels with agglomerated cork core subjected to impact loads. International Journal of Impact Engineering, 2022, 159, 104047. | 5.0 | 9 |
| 43 | Experimental and numerical analysis of the ballistic response of agglomerated cork and its bio-based sandwich structures. Engineering Failure Analysis, 2022, 131, 105904. | 4.0 | 9 |
| 44 | Assessment of agglomerated corks and PVC foams cores crashworthiness under multiple-impact events in different loading conditions. Polymer Testing, 2021, 96, 107061. | 4.8 | 8 |
| 45 | Effect of temperature on the low-velocity impact response of environmentally friendly cork sandwich structures. Journal of Sandwich Structures and Materials, 2022, 24, 1099-1121. | 3.5 | 7 |
| 46 | Application of the flexibility influence function method in the dynamic analysis of composite beams. International Journal of Solids and Structures, 2007, 44, 4795-4809. | 2.7 | 6 |
| 47 | Analysis of damage and interlaminar stresses in laminate plates with interacting holes. International Journal of Mechanical Sciences, 2020, 165, 105189. | 6.7 | 6 |
| 48 | Compression impact behaviour of agglomerated cork at intermediate strain rates. European Journal of Wood and Wood Products, 2021, 79, 381-396. | 2.9 | 6 |
| 49 | Experimental and finite element analysis of the impact response of agglomerated cork and its intraply hybrid flax/basalt sandwich structures. Composite Structures, 2021, 272, 114210. | 5.8 | 6 |
| 50 | Temperature, strain rate and anisotropy effects on compressive response of natural and synthetic cellular core materials. Composite Structures, 2021, 260, 113268. | 5.8 | 5 |
| 51 | Polypropylene/Hemp Fabric Reinforced Composites: Manufacturing and Mechanical Behaviour. Journal of Biobased Materials and Bioenergy, 2012, 6, 361-369. | 0.3 | 5 |
| 52 | Perforation of Composite Laminate Subjected to Dynamic Loads. Solid Mechanics and Its Applications, 2013, , 291-337. | 0.2 | 4 |
| 53 | Analysis of the influence of ply-orientation in delamination progression in composites laminates using the Serial/Parallel Mixing Theory. Composites Science and Technology, 2021, 211, 108847. | 7.8 | 2 |
| 54 | The effects of water absorption and salt fog exposure on agglomerated cork compressive response. European Journal of Wood and Wood Products, 0, , 1. | 2.9 | 2 |