# Sergio Almeida

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 58 papers | 1,882 citations | 279798 23 h-index | 265206 42 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 1359 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A progressive failure model for composite laminates subjected to low velocity impact damage. Computers and Structures, 2008, 86, 1232-1252. | 4.4 | 340 |
| 2 | Effect of void content on the strength of composite laminates. Composite Structures, 1994, 28, 139-148. | 5.8 | 232 |
| 3 | The influence of porosity on the interlaminar shear strength of carbon/epoxy and carbon/bismaleimide fabric laminates. Composites Science and Technology, 2001, 61, 2101-2108. | 7.8 | 228 |
| 4 | Ballistic impact simulation of an armour-piercing projectile on hybrid ceramic/fiber reinforced composite armours. International Journal of Impact Engineering, 2012, 43, 63-77. | 5.0 | 96 |
| 5 | Effect of Void Content on the Moisture Absorption in Polymeric Composites. Polymer-Plastics Technology and Engineering, 2006, 45, 691-698. | 1.9 | 81 |
| 6 | Strength of Hygrothermally Conditioned Polymer Composites with Voids. Journal of Composite Materials, 2005, 39, 1943-1961. | 2.4 | 63 |
| 7 | Hygrothermal effects on dynamic mechanical snalysis and fracture behavior of polymeric composites. Materials Research, 2005, 8, 335-340. | 1.3 | 55 |
| 8 | Vibration correlation technique for the estimation of real boundary conditions and buckling load of unstiffened plates and cylindrical shells. Thin-Walled Structures, 2014, 79, 119-128. | 5.3 | 48 |
| 9 | A numerical study on the impact resistance of composite shells using an energy based failure model. Composite Structures, 2010, 93, 142-152. | 5.8 | 46 |
| 10 | A Three-Dimensional Ply Failure Model for Composite Structures. International Journal of Aerospace Engineering, 2009, 2009, 1-22. | 0.9 | 44 |
| 11 | Stiffening effects on the natural frequencies of laminated plates with piezoelectric actuators. Composites Part B: Engineering, 2002, 33, 335-342. | 12.0 | 37 |
| 12 | Enhanced Elastic Buckling Loads of Composite Plates With Tailored Thermal Residual Stresses. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 772-780. | 2.2 | 36 |
| 13 | Stiffening effects on the free vibration behavior of composite plates with PZT actuators. Composite Structures, 2000, 49, 55-63. | 5.8 | 35 |
| 14 | Notch sensitivity of carbon/epoxy fabric laminates. Composites Science and Technology, 1999, 59, 1143-1151. | 7.8 | 34 |
| 15 | Enhancement of pre-buckling behavior of composite beams with geometric imperfections using piezoelectric actuators. Composites Part B: Engineering, 1999, 30, 43-50. | 12.0 | 33 |
| 16 | Critical Void Content for Polymer Composite Laminates. AIAA Journal, 2005, 43, 1336-1341. | 2.6 | 33 |
| 17 | Stress Stiffening Effects in Laminated Beams with Piezoelectric Actuators. Journal of Intelligent Material Systems and Structures, 1998, 9, 137-145. | 2.5 | 31 |
| 18 | Sandwich-Plate Vibration Analysis: Three-Layer Quasi-Three-Dimensional Finite Element Model. AIAA Journal, 2003, 41, 1547-1555. | 2.6 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hygrothermal effects on quasi-isotropic carbon epoxy laminates with machined and molded edges. Composites Part B: Engineering, 2008, 39, 490-496. | 12.0 | 31 |
| 20 | The effect of piezoelectrically induced stress stiffening on the aeroelastic stability of curved composite panels. Composite Structures, 2012, 94, 3601-3611. | 5.8 | 27 |
| 21 | Hygrothermal effects on the tensile strength of carbon/epoxy laminates with molded edges. Materials Research, 2000, 3, 11-17. | 1.3 | 25 |
| 22 | Optimization of composite plates subjected to buckling and small mass impact using lamination parameters. Composite Structures, 2015, 120, 141-152. | 5.8 | 25 |
| 23 | Composite plate stiffness multicriteria optimization using lamination parameters. Composite Structures, 2015, 133, 166-177. | 5.8 | 24 |
| 24 | On Extension-Shearing Bending-Twisting coupled laminates. Composite Structures, 2017, 164, 10-22. | 5.8 | 21 |
| 25 | Natural frequencies of composite plates with tailored thermal residual-stresses. International Journal of Solids and Structures, 1999, 36, 3517-3539. | 2.7 | 20 |
| 26 | Effect of the free edge finishing on the tensile strength of carbon/epoxy laminates. Composite Structures, 1993, 25, 287-293. | 5.8 | 16 |
| 27 | Buckling optimization of plates with variable thickness subjected to nonuniform uncertain loads. International Journal of Solids and Structures, 2003, 40, 3955-3966. | 2.7 | 16 |
| 28 | Effect of bending-twisting coupling on the compression and shear buckling strength of infinitely long plates. Composite Structures, 2018, 184, 18-29. | 5.8 | 15 |
| 29 | Modeling of Actively Damped Beams with Piezoelectric Actuators with Finite Stiffness Bond. Journal of Intelligent Material Systems and Structures, 1996, 7, 677-688. | 2.5 | 14 |
| 30 | Axisymmetric actuation of composite cylindrical thin shells with piezoelectric rings. Smart Materials and Structures, 1998, 7, 843-850. | 3.5 | 14 |
| 31 | Fractografia de compÃ³sito estrutural aeronÃ¡utico submetido Ã caracterizaÃ§Ã£o de tenacidade Ã fratura interlaminar em modo I. Polimeros, 2012, 22, 41-53. | 0.7 | 14 |
| 32 | The maximization of fundamental frequency of structures under arbitrary initial stress states. International Journal for Numerical Methods in Engineering, 2006, 65, 445-460. | 2.8 | 12 |
| 33 | An experimental and numerical analysis for the post-buckling behavior of composite shear webs. Composite Structures, 2011, 93, 465-473. | 5.8 | 12 |
| 34 | Effect of Thermal Residual Stresses on Buckling and Post-Buckling Properties of Laminated Composites Perimetrally Reinforced. Latin American Journal of Solids and Structures, 2016, 13, 435-455. | 1.0 | 11 |
| 35 | Fractografia de CompÃ³sito Estrutural AeronÃ¡utico Submetido ao Ensaio de Tenacidade Ã Fratura Interlaminar em Modo II. Polimeros, 2014, 24, 65-71. | 0.7 | 10 |
| 36 | Shape Control of Laminated Plates with Piezoelectric Actuators Including Stress-Stiffening Effects. AIAA Journal, 1999, 37, 1017-1019. | 2.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Novel criteria for strength predictions of open-hole composite laminates for preliminary design. Composite Structures, 2019, 229, 111409. | 5.8 | 8 |
| 38 | Weight trades in the design of a composite wing box: effect of various design choices. CEAS Aeronautical Journal, 2019, 10, 403-417. | 1.7 | 8 |
| 39 | Thermoelastic evaluation of composite laminates using digital imaging processing. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2283-2293. | 7.6 | 7 |
| 40 | A Numerical Model for Post-Buckling Analysis of Composite Shear Webs. Mechanics of Advanced Materials and Structures, 2010, 17, 313-319. | 2.6 | 5 |
| 41 | Tapered laminate designs for new non-crimp fabric architectures. Composites Part A: Applied Science and Manufacturing, 2017, 100, 150-160. | 7.6 | 5 |
| 42 | Modeling of the bend sensitivity of asymmetrical-core two-mode fiber interferometers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 869. | 1.5 | 4 |
| 43 | Buckling Optimization of Variable Thickness Composite Plates Subjected to Nonuniform Loads. AIAA Journal, 2004, 42, 228-231. | 2.6 | 4 |
| 44 | Laterally supported sandwich panels subjected to large deflections. Thin-Walled Structures, 2008, 46, 423-434. | 5.3 | 4 |
| 45 | The effects of curvature and internal pressure on the compression-after-impact strength of composite laminates. Journal of Composite Materials, 2016, 50, 825-848. | 2.4 | 4 |
| 46 | Buckling of Composite Plates with Local Damage and Thermal Residual Stresses. AIAA Journal, 2002, 40, 340-345. | 2.6 | 3 |
| 47 | Hygrothermal and Stacking Sequence Effects on Carbon Epoxy Composites with Molded Edges. Polymer-Plastics Technology and Engineering, 2006, 45, 1109-1115. | 1.9 | 3 |
| 48 | Numerical Analysis of Asymmetrical-Core Two-Mode Fiber Interferometers Subjected to Bending. Journal of Intelligent Material Systems and Structures, 1996, 7, 78-88. | 2.5 | 2 |
| 49 | Laterally supported sandwich panels subjected to large deflectionsâ€”Part 1: Test apparatus design and experimental results. Thin-Walled Structures, 2008, 46, 413-422. | 5.3 | 2 |
| 50 | Numerical and Experimental Dynamic Analyses of a Postbuckled Box Beam. AIAA Journal, 2016, 54, 1987-2003. | 2.6 | 2 |
| 51 | Optimum design for buckling of arbitrary shaped ribs under uncertain loadings. Aeronautical Journal, 2005, 109, 609-618. | 1.6 | 1 |
| 52 | A novel theory for laminated composite beam. , 2008, , . | | 1 |
| 53 | The CIM philosophy and the Mobility Technology. , 0, , . | | 0 |
| 54 | Enhanced measurement of strain distributions. Experimental Mechanics, 1998, 38, 48-54. | 2.0 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A development of a Finite Element Model, based in a novel beam theory. , 0, , . | | 0 |
| 56 | Bonded Lap Joint Analytical Model. , 0, , . | | 0 |
| 57 | Mode I Fracture Toughness Characterization of a Resistance Welded Carbon / PPS Laminate. , 2010, , . | | 0 |
| 58 | Time dependent response of a rubber-toughened carbon/epoxy composite with damage accumulation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2003, 25, 174-179. | 1.6 | 0 |