

Carlos A Mota Soares

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72
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30
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44
g-index

87
ext. papers

2,460
ext. citations

4.6
avg, IF

4.71
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 72 | Modelling and design of adaptive composite structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 185, 325-346 | 5.7 | 129 |
| 71 | Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. <i>Computers and Structures</i> , 2004 , 82, 1293-1301 | 4.5 | 128 |
| 70 | Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. <i>Computers and Structures</i> , 2004 , 82, 1349-1358 | 4.5 | 87 |
| 69 | Analyses of magneto-electro-elastic plates using a higher order finite element model. <i>Composite Structures</i> , 2009 , 91, 421-426 | 5.3 | 80 |
| 68 | A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials under thermal shock. <i>Composite Structures</i> , 2008 , 86, 10-21 | 5.3 | 77 |
| 67 | Geometrically non-linear analysis of composite structures with integrated piezoelectric sensors and actuators. <i>Composite Structures</i> , 2002 , 57, 253-261 | 5.3 | 74 |
| 66 | Active control of axisymmetric shells with piezoelectric layers: a mixed laminated theory with a high order displacement field. <i>Computers and Structures</i> , 2002 , 80, 2265-2275 | 4.5 | 68 |
| 65 | Analysis of laminated conical shell structures using higher order models. <i>Composite Structures</i> , 2003 , 62, 383-390 | 5.3 | 66 |
| 64 | Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. <i>Composite Structures</i> , 2010 , 92, 2321-2327 | 5.3 | 64 |
| 63 | A finite element model for the analysis of viscoelastic sandwich structures. <i>Computers and Structures</i> , 2011 , 89, 1874-1881 | 4.5 | 54 |
| 62 | Modelling of piezolaminated plates using layerwise mixed finite elements. <i>Computers and Structures</i> , 2004 , 82, 1849-1863 | 4.5 | 54 |
| 61 | A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials. <i>Composite Structures</i> , 2009 , 91, 427-432 | 5.3 | 53 |
| 60 | Optimal design in vibration control of adaptive structures using a simulated annealing algorithm. <i>Composite Structures</i> , 2006 , 75, 79-87 | 5.3 | 52 |
| 59 | Damping optimization of viscoelastic laminated sandwich composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2009 , 39, 569-579 | 3.6 | 51 |
| 58 | Structural damage identification in laminated structures using FRF data. <i>Composite Structures</i> , 2005 , 67, 239-249 | 5.3 | 49 |
| 57 | Finite Element Model for Hybrid Active-Passive Damping Analysis of Anisotropic Laminated Sandwich Structures. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 397-419 | 2.1 | 48 |
| 56 | Sensitivity analysis and optimal design of geometrically non-linear laminated plates and shells. <i>Computers and Structures</i> , 2000 , 76, 407-420 | 4.5 | 43 |

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|----|--|-----|----|
| 55 | Layerwise mixed least-squares finite element models for static and free vibration analysis of multilayered composite plates. <i>Composite Structures</i> , 2010 , 92, 2328-2338 | 5-3 | 42 |
| 54 | Damage localization in laminated composite plates using mode shapes measured by pulsed TV holography. <i>Composite Structures</i> , 2006 , 76, 272-281 | 5-3 | 40 |
| 53 | Active control of forced vibrations in adaptive structures using a higher order model. <i>Composite Structures</i> , 2005 , 71, 349-355 | 5-3 | 38 |
| 52 | Buckling and dynamic behaviour of laminated composite structures using a discrete higher-order displacement model. <i>Computers and Structures</i> , 1999 , 73, 407-423 | 4-5 | 38 |
| 51 | Buckling optimization of composite laminated adaptive structures. <i>Composite Structures</i> , 2003 , 62, 315-321 | 5-3 | 37 |
| 50 | A finite element semi-analytical model for laminated axisymmetric shells: statics, dynamics and buckling. <i>Computers and Structures</i> , 2000 , 76, 299-317 | 4-5 | 37 |
| 49 | Analysis of laminated adaptive plate structures using layerwise finite element models. <i>Computers and Structures</i> , 2004 , 82, 1939-1959 | 4-5 | 36 |
| 48 | A layerwise mixed least-squares finite element model for static analysis of multilayered composite plates. <i>Computers and Structures</i> , 2011 , 89, 1730-1742 | 4-5 | 35 |
| 47 | A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. <i>Applied Composite Materials</i> , 2010 , 17, 529-542 | 2 | 31 |
| 46 | Development of a numerical model for the damage identification on composite plate structures. <i>Composite Structures</i> , 2000 , 48, 59-65 | 5-3 | 31 |
| 45 | Optimal design of piezolaminated structures. <i>Composite Structures</i> , 1999 , 47, 625-634 | 5-3 | 31 |
| 44 | Higher order models on the eigenfrequency analysis and optimal design of laminated composite structures. <i>Composite Structures</i> , 1997 , 39, 237-253 | 5-3 | 30 |
| 43 | A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators: Bending and free vibrations. <i>Computers and Structures</i> , 2008 , 86, 940-947 | 4-5 | 30 |
| 42 | Buckling behaviour of laminated composite structures using a discrete higher-order displacement model. <i>Composite Structures</i> , 1996 , 35, 75-92 | 5-3 | 30 |
| 41 | Optimization of multilaminated structures using higher-order deformation models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 149, 133-152 | 5-7 | 29 |
| 40 | A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators. <i>Composite Structures</i> , 2006 , 75, 170-178 | 5-3 | 29 |
| 39 | Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. <i>Computers and Structures</i> , 2015 , 147, 229-235 | 4-5 | 28 |
| 38 | Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 159-169 | 1-8 | 28 |

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| 37 | A semi-analytical finite element model for the analysis of laminated 3D axisymmetric shells: Bending, free vibration and buckling. <i>Composite Structures</i> , 2005 , 71, 273-281 | 5.3 | 26 |
| 36 | Refined models for the optimal design of adaptive structures using simulated annealing. <i>Composite Structures</i> , 2001 , 54, 161-167 | 5.3 | 26 |
| 35 | Layerwise mixed models for analysis of multilayered piezoelectric composite plates using least-squares formulation. <i>Composite Structures</i> , 2015 , 119, 134-149 | 5.3 | 25 |
| 34 | Analysis of piezolaminated plates by the spline finite strip method. <i>Computers and Structures</i> , 2001 , 79, 2321-2333 | 4.5 | 25 |
| 33 | Optimal design for active damping in sandwich structures using the Direct MultiSearch method. <i>Composite Structures</i> , 2013 , 105, 29-34 | 5.3 | 24 |
| 32 | Vibration analysis of functionally graded material sandwich structures with passive damping. <i>Composite Structures</i> , 2018 , 183, 407-415 | 5.3 | 23 |
| 31 | Analysis of adaptive plate structures by mixed layerwise finite elements. <i>Composite Structures</i> , 2004 , 66, 269-276 | 5.3 | 23 |
| 30 | A damage identification numerical model based on the sensitivity of orthogonality conditions and least squares techniques. <i>Computers and Structures</i> , 2000 , 78, 283-291 | 4.5 | 23 |
| 29 | Benchmark exact solutions for the static analysis of multilayered piezoelectric composite plates using PVDF. <i>Composite Structures</i> , 2014 , 107, 389-395 | 5.3 | 21 |
| 28 | Sensitivity analysis and optimal design of thin laminated composite structures. <i>Computers and Structures</i> , 1991 , 41, 501-508 | 4.5 | 21 |
| 27 | Damping optimisation of hybrid active-passive sandwich composite structures. <i>Advances in Engineering Software</i> , 2012 , 46, 69-74 | 3.6 | 20 |
| 26 | Buckling sensitivity analysis and optimal design of thin laminated structures. <i>Computers and Structures</i> , 1997 , 64, 461-472 | 4.5 | 20 |
| 25 | Mixed least-squares finite element models for static and free vibration analysis of laminated composite plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 1848-1856 | 5.7 | 19 |
| 24 | Development of semianalytical axisymmetric shell models with embedded sensors and actuators. <i>Composite Structures</i> , 1999 , 47, 531-541 | 5.3 | 19 |
| 23 | Modelling and design of adaptive structures using B-spline strip models. <i>Composite Structures</i> , 2002 , 57, 245-251 | 5.3 | 18 |
| 22 | Higher-order B-spline strip models for laminated composite structures with integrated sensors and actuators. <i>Composite Structures</i> , 2001 , 54, 267-274 | 5.3 | 18 |
| 21 | Higher-order B-spline finite strip model for laminated adaptive structures. <i>Composite Structures</i> , 2001 , 52, 419-427 | 5.3 | 17 |
| 20 | Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. <i>Computers and Structures</i> , 2020 , 232, 105810 | 4.5 | 17 |

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| 19 | Optimal dynamic control of laminated adaptive structures using a higher order model and a genetic algorithm. <i>Computers and Structures</i> , 2008 , 86, 198-206 | 4.5 | 15 |
| 18 | Analysis of adaptive shell structures using a refined laminated model. <i>Composite Structures</i> , 2004 , 66, 261-268 | 5.3 | 14 |
| 17 | Structural damage identification: influence of model incompleteness and errors. <i>Composite Structures</i> , 2003 , 62, 303-313 | 5.3 | 14 |
| 16 | Mixed least-squares finite element model for the static analysis of laminated composite plates. <i>Computers and Structures</i> , 2008 , 86, 826-838 | 4.5 | 12 |
| 15 | Elastoplastic and nonlinear analysis of functionally graded axisymmetric shell structures under thermal environment, using a conical frustum finite element model. <i>Composite Structures</i> , 2019 , 226, 111186 | 5.3 | 11 |
| 14 | Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. <i>Applied Composite Materials</i> , 2010 , 17, 543-556 | 2 | 10 |
| 13 | Modelling and optimization of laminated adaptive shells of revolution. <i>Composite Structures</i> , 2006 , 75, 49-59 | 5.3 | 10 |
| 12 | Adaptive boundary element method for bidimensional elasticity. <i>Computers and Structures</i> , 1988 , 30, 841-844 | 4.5 | 7 |
| 11 | Geometrically nonlinear analysis of sandwich structures. <i>Composite Structures</i> , 2016 , 156, 135-144 | 5.3 | 6 |
| 10 | Shape optimization of axisymmetric shells using a higher-order shear deformation theory. <i>Structural Optimization</i> , 1995 , 9, 117-127 | | 6 |
| 9 | Boundary elements in 2D plasticity using quadratic shape functions. <i>Applied Mathematical Modelling</i> , 1981 , 5, 371-375 | 4.5 | 6 |
| 8 | Sensitivity analysis and optimal design of thin shells of revolution. <i>AIAA Journal</i> , 1994 , 32, 1034-1042 | 2.1 | 4 |
| 7 | Modeling of layerwise piezolaminated structures 2002 , 4701, 293 | | 3 |
| 6 | Numerical model for the optimal design of composite laminated structures with piezoelectric laminate 1999 , 3667, 427 | | 3 |
| 5 | Optimal Design of Composite Structures with Integrated Piezoelectric Laminae 1999 , 389-408 | | 3 |
| 4 | Optimal design of active, passive, and hybrid sandwich structures 2008 , | | 2 |
| 3 | A semi-analytical finite element model for the analysis of piezolaminated cylindrical shells 2006 , | | 1 |
| 2 | Development of a Single-Layer Laminated Plate Finite-Element Model Based on Walsh Series. <i>Mechanics of Advanced Materials and Structures</i> , 2002 , 9, 241-255 | 1.8 | |

- 1 A Finite Element Model for the Analysis of 3D Axisymmetric Laminated Shells with Embedded Piezoelectric Sensors and Actuators **2006**, 246-246