Carlos A Mota Soares

List of Publications by Year in Descending Order

72 papers	2,295 citations	30 h-index	44 g-index
87 ext. papers	2,460 ext. citations	4.6 avg, IF	4.71 L-index

#	Paper	IF	Citations
72	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. *Computers and Structures*, **2020**, 232, 105810	4.5	17
71	Elastoplastic and nonlinear analysis of functionally graded axisymmetric shell structures under thermal environment, using a conical frustum finite element model. *Composite Structures*, **2019**, 226, 111186	5.3	11
70	Vibration analysis of functionally graded material sandwich structures with passive damping. *Composite Structures*, **2018**, 183, 407-415	5.3	23
69	Geometrically nonlinear analysis of sandwich structures. *Composite Structures*, **2016**, 156, 135-144	5.3	6
68	Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. *Computers and Structures*, **2015**, 147, 229-235	4.5	28
67	Layerwise mixed models for analysis of multilayered piezoelectric composite plates using least-squares formulation. *Composite Structures*, **2015**, 119, 134-149	5.3	25
66	Benchmark exact solutions for the static analysis of multilayered piezoelectric composite plates using PVDF. *Composite Structures*, **2014**, 107, 389-395	5.3	21
65	Optimal design for active damping in sandwich structures using the Direct MultiSearch method. *Composite Structures*, **2013**, 105, 29-34	5.3	24
64	Damping optimisation of hybrid active‐passive sandwich composite structures. *Advances in Engineering Software*, **2012**, 46, 69-74	3.6	20
63	A layerwise mixed least-squares finite element model for static analysis of multilayered composite plates. *Computers and Structures*, **2011**, 89, 1730-1742	4.5	35
62	A finite element model for the analysis of viscoelastic sandwich structures. *Computers and Structures*, **2011**, 89, 1874-1881	4.5	54
61	Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. *Mechanics of Advanced Materials and Structures*, **2011**, 18, 159-169	1.8	28
60	Finite Element Model for Hybrid Active-Passive Damping Analysis of Anisotropic Laminated Sandwich Structures. *Journal of Sandwich Structures and Materials*, **2010**, 12, 397-419	2.1	48
59	A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. *Applied Composite Materials*, **2010**, 17, 529-542	2	31
58	Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. *Applied Composite Materials*, **2010**, 17, 543-556	2	10
57	Layerwise mixed least-squares finite element models for static and free vibration analysis of multilayered composite plates. *Composite Structures*, **2010**, 92, 2328-2338	5.3	42
56	Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. *Composite Structures*, **2010**, 92, 2321-2327	5.3	64

55	Damping optimization of viscoelastic laminated sandwich composite structures. *Structural and Multidisciplinary Optimization*, **2009**, 39, 569-579	3.6	51
54	Mixed least-squares finite element models for static and free vibration analysis of laminated composite plates. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 1848-1856	5.7	19
53	Analyses of magneto-electro-elastic plates using a higher order finite element model. *Composite Structures*, **2009**, 91, 421-426	5.3	80
52	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials. *Composite Structures*, **2009**, 91, 427-432	5.3	53
51	Optimal design of active, passive, and hybrid sandwich structures **2008**,		2
50	Optimal dynamic control of laminated adaptive structures using a higher order model and a genetic algorithm. *Computers and Structures*, **2008**, 86, 198-206	4.5	15
49	Mixed least-squares finite element model for the static analysis of laminated composite plates. *Computers and Structures*, **2008**, 86, 826-838	4.5	12
48	A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators: Bending and free vibrations. *Computers and Structures*, **2008**, 86, 940-947	4.5	30
47	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials under thermal shock. *Composite Structures*, **2008**, 86, 10-21	5.3	77
46	A semi-analytical finite element model for the analysis of piezolaminated cylindrical shells **2006**,		1
45	Modelling and optimization of laminated adaptive shells of revolution. *Composite Structures*, **2006**, 75, 49-59	5.3	10
44	A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators. *Composite Structures*, **2006**, 75, 170-178	5.3	29
43	Optimal design in vibration control of adaptive structures using a simulated annealing algorithm. *Composite Structures*, **2006**, 75, 79-87	5.3	52
42	Damage localization in laminated composite plates using mode shapes measured by pulsed TV holography. *Composite Structures*, **2006**, 76, 272-281	5.3	40
41	A Finite Element Model for the Analysis of 3D Axisymmetric Laminated Shells with Embedded Piezoelectric Sensors and Actuators **2006**, 246-246		
40	Structural damage identification in laminated structures using FRF data. *Composite Structures*, **2005**, 67, 239-249	5.3	49
39	A semi-analytical finite element model for the analysis of laminated 3D axisymmetric shells: Bending, free vibration and buckling. *Composite Structures*, **2005**, 71, 273-281	5.3	26
38	Active control of forced vibrations in adaptive structures using a higher order model. *Composite Structures*, **2005**, 71, 349-355	5.3	38

37	Analysis of laminated adaptive plate structures using layerwise finite element models. *Computers and Structures*, **2004**, 82, 1939-1959	4.5	36
36	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. *Computers and Structures*, **2004**, 82, 1293-1301	4.5	128
35	Analysis of adaptive shell structures using a refined laminated model. *Composite Structures*, **2004**, 66, 261-268	5.3	14
34	Analysis of adaptive plate structures by mixed layerwise finite elements. *Composite Structures*, **2004**, 66, 269-276	5.3	23
33	Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. *Computers and Structures*, **2004**, 82, 1349-1358	4.5	87
32	Modelling of piezolaminated plates using layerwise mixed finite elements. *Computers and Structures*, **2004**, 82, 1849-1863	4.5	54
31	Analysis of laminated conical shell structures using higher order models. *Composite Structures*, **2003**, 62, 383-390	5.3	66
30	Structural damage identification: influence of model incompleteness and errors. *Composite Structures*, **2003**, 62, 303-313	5.3	14
29	Buckling optimization of composite laminated adaptive structures. *Composite Structures*, **2003**, 62, 315-321	5.3	37
28	Modelling and design of adaptive structures using B-spline strip models. *Composite Structures*, **2002**, 57, 245-251	5.3	18
27	Geometrically non-linear analysis of composite structures with integrated piezoelectric sensors and actuators. *Composite Structures*, **2002**, 57, 253-261	5.3	74
26	Active control of axisymmetric shells with piezoelectric layers: a mixed laminated theory with a high order displacement field. *Computers and Structures*, **2002**, 80, 2265-2275	4.5	68
25	Development of a Single-Layer Laminated Plate Finite-Element Model Based on Walsh Series. *Mechanics of Advanced Materials and Structures*, **2002**, 9, 241-255	1.8	
24	Modeling of layerwise piezolaminated structures **2002**, 4701, 293		3
23	Higher-order B-spline finite strip model for laminated adaptive structures. *Composite Structures*, **2001**, 52, 419-427	5.3	17
22	Refined models for the optimal design of adaptive structures using simulated annealing. *Composite Structures*, **2001**, 54, 161-167	5.3	26
21	Higher-order B-spline strip models for laminated composite structures with integrated sensors and actuators. *Composite Structures*, **2001**, 54, 267-274	5.3	18
20	Analysis of piezolaminated plates by the spline finite strip method. *Computers and Structures*, **2001**, 79, 2321-2333	4.5	25

19	Modelling and design of adaptive composite structures. *Computer Methods in Applied Mechanics and Engineering*, **2000**, 185, 325-346	5.7	129
18	A damage identification numerical model based on the sensitivity of orthogonality conditions and least squares techniques. *Computers and Structures*, **2000**, 78, 283-291	4.5	23
17	Sensitivity analysis and optimal design of geometrically non-linear laminated plates and shells. *Computers and Structures*, **2000**, 76, 407-420	4.5	43
16	A finite element semi-analytical model for laminated axisymmetric shells: statics, dynamics and buckling. *Computers and Structures*, **2000**, 76, 299-317	4.5	37
15	Development of a numerical model for the damage identification on composite plate structures. *Composite Structures*, **2000**, 48, 59-65	5.3	31
14	Numerical model for the optimal design of composite laminated structures with piezoelectric laminate **1999**, 3667, 427		3
13	Buckling and dynamic behaviour of laminated composite structures using a discrete higher-order displacement model. *Computers and Structures*, **1999**, 73, 407-423	4.5	38
12	Development of semianalytical axisymmetric shell models with embedded sensors and actuators. *Composite Structures*, **1999**, 47, 531-541	5.3	19
11	Optimal design of piezolaminated structures. *Composite Structures*, **1999**, 47, 625-634	5.3	31
10	Optimal Design of Composite Structures with Integrated Piezoelectric Laminae **1999**, 389-408		3
9	Higher order models on the eigenfrequency analysis and optimal design of laminated composite structures. *Composite Structures*, **1997**, 39, 237-253	5.3	30
8	Optimization of multilaminated structures using higher-order deformation models. *Computer Methods in Applied Mechanics and Engineering*, **1997**, 149, 133-152	5.7	29
7	Buckling sensitivity analysis and optimal design of thin laminated structures. *Computers and Structures*, **1997**, 64, 461-472	4.5	20
6	Buckling behaviour of laminated composite structures using a discrete higher-order displacement model. *Composite Structures*, **1996**, 35, 75-92	5.3	30
5	Shape optimization of axisymmetric shells using a higher-order shear deformation theory. *Structural Optimization*, **1995**, 9, 117-127		6
4	Sensitivity analysis and optimal design of thin shells of revolution. *AIAA Journal*, **1994**, 32, 1034-1042	2.1	4
3	Sensitivity analysis and optimal design of thin laminated composite structures. *Computers and Structures*, **1991**, 41, 501-508	4.5	21
2	Adaptive boundary element method for bidimensional elasticity. *Computers and Structures*, **1988**, 30, 841-844	4.5	7

1   Boundary elements in 2D plasticity using quadratic shape functions. *Applied Mathematical Modelling*, **1981**, 5, 371-375   4.5   6