Cristvo Manuel Mota Soares

List of Publications by Year in Descending Order

145 papers	**4,876** citations
38 h-index	**62** g-index
159 ext. papers	**5,281** ext. citations
4.6 avg, IF	**5.59** L-index

#	Paper	IF	Citations
145	Free vibrations analysis of composite and hybrid axisymmetric shells. *Composite Structures*, **2022**, 286, 115267	5.3	
144	Mechanical and thermal buckling of functionally graded axisymmetric shells. *Composite Structures*, **2021**, 261, 113318	5.3	3
143	Optimization of Metal⬜Ceramic Functionally Graded Plates Using the Simulated Annealing Algorithm. *Applied Sciences (Switzerland)*, **2021**, 11, 729	2.6	3
142	Vibrations of functionally graded material axisymmetric shells. *Composite Structures*, **2020**, 248, 112489	5.3	2
141	Buckling behavior of composite and functionally graded material plates. *European Journal of Mechanics, A/Solids*, **2020**, 80, 103921	3.7	14
140	Evaluation of exact electro-elastic static and free vibration solutions of multilayered plates for benchmarking: Piezoelectric composite laminates and soft core sandwich plates. *Composites Part C: Open Access*, **2020**, 2, 100038	1.6	2
139	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. *Computers and Structures*, **2020**, 232, 105810	4.5	17
138	Three-dimensional exact hygro-thermo-elastic solutions for multilayered plates: Composite laminates, fibre metal laminates and sandwich plates. *Composite Structures*, **2019**, 216, 260-278	5.3	24
137	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
136	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. *Composites Part B: Engineering*, **2019**, 156, 274-291	10	19
135	Higher-order finite element models for the static linear and nonlinear behaviour of functionally graded material plate-shell structures. *Composite Structures*, **2019**, 212, 465-475	5.3	10
134	Multiobjective optimization of functionally graded material plates with thermo-mechanical loading. *Composite Structures*, **2019**, 207, 845-857	5.3	21
133	Material distribution and sizing optimization of functionally graded plate-shell structures. *Composites Part B: Engineering*, **2018**, 142, 263-272	10	35
132	Active-passive damping in functionally graded sandwich plate/shell structures. *Composite Structures*, **2018**, 202, 324-332	5.3	16
131	Buckling and nonlinear response of functionally graded plates under thermo-mechanical loading. *Composite Structures*, **2018**, 202, 719-730	5.3	20
130	Vibration analysis of functionally graded material sandwich structures with passive damping. *Composite Structures*, **2018**, 183, 407-415	5.3	23
129	Multiobjective optimization of ceramic-metal functionally graded plates using a higher order model. *Composite Structures*, **2018**, 183, 146-160	5.3	31

128	Multiobjective optimization of constrained layer damping treatments in composite plate structures. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 427-436	1.8	19
127	Influence of zig-zag and warping effects on buckling of functionally graded sandwich plates according to sinusoidal shear deformation theories. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 360-376	1.8	21
126	Tenth International Conference on Composite Structures and Technology (ICCST/10): In honor of the 70th anniversary of Professor Carlos Alberto Mota Soares. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 359-359	1.8	
125	Dynamic instability of variable stiffness composite plates. *Composite Structures*, **2017**, 182, 402-411	5.3	32
124	Multiobjective design optimization of laminated composite plates with piezoelectric layers. *Composite Structures*, **2017**, 169, 10-20	5.3	13
123	Geometrically nonlinear analysis of sandwich structures. *Composite Structures*, **2016**, 156, 135-144	5.3	6
122	Vibration analysis of laminated soft core sandwich plates with piezoelectric sensors and actuators. *Composite Structures*, **2016**, 151, 91-98	5.3	42
121	Material and Geometric Nonlinear Analysis of Functionally Graded Plate-Shell Type Structures. *Applied Composite Materials*, **2016**, 23, 537-554	2	8
120	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping **2016**, 878-882		
119	Multiobjective design of viscoelastic laminated composite sandwich panels. *Composites Part B: Engineering*, **2015**, 77, 391-401	10	58
118	Dynamic behaviour of soft core sandwich beam structures using kriging-based layerwise models. *Composite Structures*, **2015**, 134, 883-894	5.3	30
117	Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. *Computers and Structures*, **2015**, 147, 229-235	4.5	28
116	Analysis of sandwich beam structures using kriging based higher order models. *Composite Structures*, **2015**, 119, 99-106	5.3	18
115	Layerwise mixed models for analysis of multilayered piezoelectric composite plates using least-squares formulation. *Composite Structures*, **2015**, 119, 134-149	5.3	25
114	Buckling and geometrically nonlinear analysis of sandwich structures. *International Journal of Mechanical Sciences*, **2015**, 92, 154-161	5.5	18
113	Benchmark exact solutions for the static analysis of multilayered piezoelectric composite plates using PVDF. *Composite Structures*, **2014**, 107, 389-395	5.3	21
112	Optimization of magneto-electro-elastic composite structures using differential evolution. *Composite Structures*, **2014**, 107, 276-287	5.3	19
111	Finite element model for damping optimization of viscoelastic sandwich structures. *Advances in Engineering Software*, **2013**, 66, 34-39	3.6	36

110	Free vibration analysis of functionally graded shells by a higher-order shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. *European Journal of Mechanics, A/Solids*, **2013**, 37, 24-34	3.7	127
109	Optimal design for active damping in sandwich structures using the Direct MultiSearch method. *Composite Structures*, **2013**, 105, 29-34	5.3	24
108	Static, free vibration and buckling analysis of isotropic and sandwich functionally graded plates using a quasi-3D higher-order shear deformation theory and a meshless technique. *Composites Part B: Engineering*, **2013**, 44, 657-674	10	352
107	A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates. *Composites Part B: Engineering*, **2013**, 45, 1258-1264	10	98
106	Analysis of functionally graded sandwich plate structures with piezoelectric skins, using B-spline finite strip method. *Composite Structures*, **2013**, 96, 606-615	5.3	36
105	Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. *Advances in Engineering Software*, **2012**, 52, 30-43	3.6	79
104	Assessment of a layerwise mixed least-squares model for analysis of multilayered piezoelectric composite plates. *Computers and Structures*, **2012**, 108-109, 14-30	4.5	22
103	Buckling analysis of sandwich plates with functionally graded skins using a new quasi-3D hyperbolic sine shear deformation theory and collocation with radial basis functions. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2012**, 92, 749-766	1	41
102	Damping optimisation of hybrid active-passive sandwich composite structures. *Advances in Engineering Software*, **2012**, 46, 69-74	3.6	20
101	A quasi-3D sinusoidal shear deformation theory for the static and free vibration analysis of functionally graded plates. *Composites Part B: Engineering*, **2012**, 43, 711-725	10	254
100	Assessment of mixed and displacement-based models for static analysis of composite beams of different cross-sections. *Composite Structures*, **2012**, 94, 601-616	5.3	26
99	A quasi-3D hyperbolic shear deformation theory for the static and free vibration analysis of functionally graded plates. *Composite Structures*, **2012**, 94, 1814-1825	5.3	205
98	A study on the modeling of sandwich functionally graded particulate composites. *Composite Structures*, **2012**, 94, 2209-2217	5.3	19
97	Buckling behaviour of cross-ply laminated plates by a higher-order shear deformation theory. *Science and Engineering of Composite Materials*, **2012**, 19, 119-125	1.5	6
96	Nonlocal material properties of single-walled carbon nanotubes. *International Journal of Smart and Nano Materials*, **2012**, 3, 141-151	3.6	7
95	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
94	A numerical-experimental method for damage location based on rotation fields spatial differentiation. *Computers and Structures*, **2011**, 89, 1754-1770	4.5	21
93	A finite element model for the analysis of viscoelastic sandwich structures. *Computers and Structures*, **2011**, 89, 1874-1881	4.5	54

92	Bending of FGM plates by a sinusoidal plate formulation and collocation with radial basis functions. *Mechanics Research Communications*, **2011**, 38, 368-371	2.2	79
91	Modeling, Simulation and Testing of Composite and Adaptive Structures. *Mechanics of Advanced Materials and Structures*, **2011**, 18, 95-95	1.8	
90	Buckling and vibration analysis of isotropic and laminated plates by radial basis functions. *Composites Part B: Engineering*, **2011**, 42, 592-606	10	59
89	Transient analysis of composite plates by radial basis functions in a pseudospectral framework. *Computers and Structures*, **2011**, 89, 161-169	4.5	2
88	Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory. *Thin-Walled Structures*, **2011**, 49, 804-811	4.7	62
87	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
86	Transient analysis of composite and sandwich plates by radial basis functions. *Journal of Sandwich Structures and Materials*, **2011**, 13, 681-704	2.1	11
85	Adaptive Methods for Analysis of Composite Plates with Radial Basis Functions. *Mechanics of Advanced Materials and Structures*, **2011**, 18, 420-430	1.8	1
84	Optimal Design of Piezolaminated Structures Using B-Spline Finite Strip Models and Genetic Algorithms. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2010**, 11, 185-195	0.7	5
83	Optimal design of piezolaminated structures using B-spline strip finite element models. *Inverse Problems in Science and Engineering*, **2010**, 18, 481-497	1.3	2
82	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
81	A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. *Applied Composite Materials*, **2010**, 17, 529-542	2	31
80	Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. *Applied Composite Materials*, **2010**, 17, 543-556	2	10
79	Analysis of plates on Pasternak foundations by radial basis functions. *Computational Mechanics*, **2010**, 46, 791-803	4	33
78	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
77	Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. *Composite Structures*, **2010**, 92, 2321-2327	5.3	64
76	Visco-piezo-elastic parameter estimation in laminated plate structures. *Inverse Problems in Science and Engineering*, **2009**, 17, 145-157	1.3	7
75	Solving time-dependent problems by an RBF-PS method with an optimal shape parameter. *Journal of Physics: Conference Series*, **2009**, 181, 012053	0.3	1

74	Damping optimization of viscoelastic laminated sandwich composite structures. *Structural and Multidisciplinary Optimization*, **2009**, 39, 569-579	3.6	51
73	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
72	Estimation of piezoelastic and viscoelastic properties in laminated structures. *Composite Structures*, **2009**, 87, 168-174	5.3	32
71	Analyses of magneto-electro-elastic plates using a higher order finite element model. *Composite Structures*, **2009**, 91, 421-426	5.3	80
70	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
69	Optimal design of active, passive, and hybrid sandwich structures **2008**,		2
68	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
67	Mixed least-squares finite element model for the static analysis of laminated composite plates. *Computers and Structures*, **2008**, 86, 826-838	4.5	12
66	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
65	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
64	A semi-analytical finite element model for the analysis of piezolaminated cylindrical shells **2006**,		1
63	Parameter estimation in active plate structures using gradient optimisation and neural networks. *Inverse Problems in Science and Engineering*, **2006**, 14, 483-493	1.3	15
62	Parameter estimation in active plate structures. *Computers and Structures*, **2006**, 84, 1471-1479	4.5	30
61	Modelling and optimization of laminated adaptive shells of revolution. *Composite Structures*, **2006**, 75, 49-59	5.3	10
60	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
59	Optimal design in vibration control of adaptive structures using a simulated annealing algorithm. *Composite Structures*, **2006**, 75, 79-87	5.3	52
58	Damage localization in laminated composite plates using mode shapes measured by pulsed TV holography. *Composite Structures*, **2006**, 76, 272-281	5.3	40
57	A Finite Element Model for the Analysis of 3D Axisymmetric Laminated Shells with Embedded Piezoelectric Sensors and Actuators **2006**, 246-246		

56	Mathematical programming models and algorithms for engineering design optimization. *Computer Methods in Applied Mechanics and Engineering*, **2005**, 194, 3244-3268	5.7	48
55	Structural damage identification in laminated structures using FRF data. *Composite Structures*, **2005**, 67, 239-249	5.3	49
54	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
53	Active control of forced vibrations in adaptive structures using a higher order model. *Composite Structures*, **2005**, 71, 349-355	5.3	38
52	Interior point algorithms for nonlinear constrained least squares problems. *Inverse Problems in Science and Engineering*, **2004**, 12, 211-223	1.3	10
51	Analysis of laminated adaptive plate structures using layerwise finite element models. *Computers and Structures*, **2004**, 82, 1939-1959	4.5	36
50	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. *Computers and Structures*, **2004**, 82, 1293-1301	4.5	128
49	Analysis of adaptive shell structures using a refined laminated model. *Composite Structures*, **2004**, 66, 261-268	5.3	14
48	Analysis of adaptive plate structures by mixed layerwise finite elements. *Composite Structures*, **2004**, 66, 269-276	5.3	23
47	Optimal truss design including plastic collapse constraints. *Structural and Multidisciplinary Optimization*, **2004**, 27, 20-26	3.6	3
46	Numerical simulation of the forest impact on aquifers. *Communications in Numerical Methods in Engineering*, **2004**, 20, 585-594		
45	Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. *Computers and Structures*, **2004**, 82, 1349-1358	4.5	87
44	Modelling of piezolaminated plates using layerwise mixed finite elements. *Computers and Structures*, **2004**, 82, 1849-1863	4.5	54
43	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. *Computers and Structures*, **2004**, 82, 1293-1293	4.5	
42	Analysis of laminated conical shell structures using higher order models. *Composite Structures*, **2003**, 62, 383-390	5.3	66
41	Structural damage identification: influence of model incompleteness and errors. *Composite Structures*, **2003**, 62, 303-313	5.3	14
40	Buckling optimization of composite laminated adaptive structures. *Composite Structures*, **2003**, 62, 315-321	5.3	37
39	Modelling and design of adaptive structures using B-spline strip models. *Composite Structures*, **2002**, 57, 245-251	5.3	18

38	Geometrically non-linear analysis of composite structures with integrated piezoelectric sensors and actuators. *Composite Structures*, **2002**, 57, 253-261	5.3	74
37	Development of a finite element model for the identification of mechanical and piezoelectric properties through gradient optimisation and experimental vibration data. *Composite Structures*, **2002**, 58, 307-318	5.3	48
36	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
35	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	
34	Modeling of layerwise piezolaminated structures **2002**, 4701, 293		3
33	Higher-order B-spline finite strip model for laminated adaptive structures. *Composite Structures*, **2001**, 52, 419-427	5.3	17
32	Refined models for the optimal design of adaptive structures using simulated annealing. *Composite Structures*, **2001**, 54, 161-167	5.3	26
31	Higher-order B-spline strip models for laminated composite structures with integrated sensors and actuators. *Composite Structures*, **2001**, 54, 267-274	5.3	18
30	Analysis of piezolaminated plates by the spline finite strip method. *Computers and Structures*, **2001**, 79, 2321-2333	4.5	25
29	Modelling and design of adaptive composite structures. *Computer Methods in Applied Mechanics and Engineering*, **2000**, 185, 325-346	5.7	129
28	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
27	Sensitivity analysis and optimal design of geometrically non-linear laminated plates and shells. *Computers and Structures*, **2000**, 76, 407-420	4.5	43
26	A finite element semi-analytical model for laminated axisymmetric shells: statics, dynamics and buckling. *Computers and Structures*, **2000**, 76, 299-317	4.5	37
25	Combined numerical-experimental model for the identification of mechanical properties of laminated structures. *Composite Structures*, **2000**, 50, 363-372	5.3	50
24	Development of a numerical model for the damage identification on composite plate structures. *Composite Structures*, **2000**, 48, 59-65	5.3	31
23	Shape structural optimization with an interior point nonlinear programming algorithm. *Structural and Multidisciplinary Optimization*, **2000**, 20, 107-115	3.6	13
22	Identification of Damage in Composite Structures: A Numerical Model. *Mechanics of Advanced Materials and Structures*, **1999**, 6, 363-376	1.8	4
21	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

20	Development of semianalytical axisymmetric shell models with embedded sensors and actuators. *Composite Structures*, **1999**, 47, 531-541	5.3	19
19	Optimal design of piezolaminated structures. *Composite Structures*, **1999**, 47, 625-634	5.3	31
18	Optimal Design of Composite Structures with Integrated Piezoelectric Laminae **1999**, 389-408		3
17	Higher order models on the eigenfrequency analysis and optimal design of laminated composite structures. *Composite Structures*, **1997**, 39, 237-253	5.3	30
16	Buckling behaviour of laminated beam structures using a higher-order discrete model. *Composite Structures*, **1997**, 38, 119-131	5.3	16
15	Optimization of multilaminated structures using higher-order deformation models. *Computer Methods in Applied Mechanics and Engineering*, **1997**, 149, 133-152	5.7	29
14	Buckling sensitivity analysis and optimal design of thin laminated structures. *Computers and Structures*, **1997**, 64, 461-472	4.5	20
13	Buckling behaviour of laminated composite structures using a discrete higher-order displacement model. *Composite Structures*, **1996**, 35, 75-92	5.3	30
12	Characterization of material parameters of composite plate specimens using optimization and experimental vibrational data. *Composites Part B: Engineering*, **1996**, 27, 185-191	10	62
11	Shape optimization of axisymmetric shells using a higher-order shear deformation theory. *Structural Optimization*, **1995**, 9, 117-127		6
10	A discrete model for the optimal design of thin composite plate-shell type structures using a two-level approach. *Composite Structures*, **1995**, 30, 147-157	5.3	23
9	A model for the optimum design of thin laminated plate-shell structures for static, dynamic and buckling behaviour. *Composite Structures*, **1995**, 32, 69-79	5.3	7
8	Failure prediction of composite T-beams subjected to lateral load on the web. *Composite Structures*, **1995**, 32, 601-607	5.3	
7	A discrete model for the design sensitivity analysis of multi-layered composite shells of revolution. *Composites Part B: Engineering*, **1995**, 5, 533-550		10
6	Identification of material properties of composite plate specimens. *Composite Structures*, **1993**, 25, 277-285	5.3	126
5	Mechanical bending behaviour of composite T-beams. *Composite Structures*, **1993**, 25, 579-586	5.3	3
4	Sensitivity analysis and optimal design of thin laminated composite structures. *Computers and Structures*, **1991**, 41, 501-508	4.5	21
3	Structural Damage Identification: A Survey. *Computational Science, Engineering and Technology Series*, 1-24		21