Stefano Valvano

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Shell elements with through-the-thickness variable kinematics for the analysis of laminated composite and sandwich structures. Composites Part B: Engineering, 2017, 111, 294-314.	12.0	61
2	A variable kinematic doubly-curved MITC9 shell element for the analysis of laminated composites. Mechanics of Advanced Materials and Structures, 2016, 23, 1312-1325.	2.6	49
3	Analytical frequency response solution for composite plates embedding viscoelastic layers. Aerospace Science and Technology, 2019, 92, 429-445.	4.8	49
4	Modal analysis of delaminated plates and shells using Carrera Unified Formulation – MITC9 shell element. Mechanics of Advanced Materials and Structures, 2018, 25, 681-697.	2.6	48
5	Classical, higher-order, zig-zag and variable kinematic shell elements for the analysis of composite multilayered structures. European Journal of Mechanics, A/Solids, 2018, 72, 97-110.	3.7	47
6	A layer-wise MITC9 finite element for the free-vibration analysis of plates with piezo-patches. International Journal of Smart and Nano Materials, 2015, 6, 85-104.	4.2	44
7	Analysis of laminated composites and sandwich structures by variable-kinematic MITC9 plate elements. Journal of Sandwich Structures and Materials, 2018, 20, 4-41.	3.5	44
8	Variable Kinematic Shell Elements for the Analysis of Electro-Mechanical Problems. Mechanics of Advanced Materials and Structures, 2015, 22, 77-106.	2.6	42
9	Analysis of laminated composites and sandwich structures by trigonometric, exponential and miscellaneous polynomials and a MITC9 plate element. Composite Structures, 2016, 150, 103-114.	5.8	37
10	Multilayered plate elements accounting for refined theories and node-dependent kinematics. Composites Part B: Engineering, 2017, 114, 189-210.	12.0	37
11	A variable kinematic shell formulation applied to thermal stress of laminated structures. Journal of Thermal Stresses, 2017, 40, 803-827.	2.0	37
12	Electro-mechanical analysis of composite and sandwich multilayered structures by shell elements with node-dependent kinematics. International Journal of Smart and Nano Materials, 2018, 9, 1-33.	4.2	36
13	Analysis of multilayered structures embedding viscoelastic layers by higher-order, and zig-zag plate elements. Composites Part B: Engineering, 2018, 154, 77-89.	12.0	36
14	Thermal stress analysis of laminated structures by a variable kinematic MITC9 shell element. Journal of Thermal Stresses, 2016, 39, 121-141.	2.0	35
15	MULTILAYERED PLATE ELEMENTS WITH NODE-DEPENDENT KINEMATICS FOR THE ANALYSIS OF COMPOSITE AND SANDWICH STRUCTURES. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 1.	4.6	35
16	Multilayered plate elements with node-dependent kinematics for electro-mechanical problems. International Journal of Smart and Nano Materials, 2018, 9, 279-317.	4.2	32
17	Analysis of laminated composite structures with embedded piezoelectric sheets by variable kinematic shell elements. Journal of Intelligent Material Systems and Structures, 2017, 28, 2959-2987.	2.5	30
	Design of a noise reduction passive control system based on viscoelastic multilayered plate using <mml:math <="" altimg="si12.gif" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td></td></mml:math>		

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#	Article	IF	CITATIONS
19	A variable ESL/LW kinematic plate formulation for free-vibration thermoelastic analysis of laminated structures. Journal of Thermal Stresses, 2019, 42, 452-474.	2.0	26
20	An alternative approach for modal analysis of stiffened thin-walled structures with advanced plate elements. European Journal of Mechanics, A/Solids, 2019, 77, 103820.	3.7	24
21	Analytical analysis of sound transmission in passive damped multilayered shells. Composite Structures, 2020, 253, 112742.	5.8	17
22	Sound Transmission Analysis of Viscoelastic Composite Multilayered Shells Structures. Aerospace, 2019, 6, 69.	2.2	15
23	Heat conduction and Thermal Stress Analysis of laminated composites by a variable kinematic MITC9 shell element. Curved and Layered Structures, 2015, 2, .	1.3	14
24	A simultaneous dual-parameter optical fibre single sensor embedded in a glass fibre/epoxy composite. Composite Structures, 2021, 270, 114087.	5.8	11
25	Higher-Order Shell Element for the Static and Free-Vibration Analysis of Sandwich Structures. , 2018, ,		3
26	BCC lattice cell structural characterization. Reports in Mechanical Engineering, 2021, 2, 77-85.	7.7	3
27	Analytical higher-order-theories for noise reduction analysis of viscoelastic composite multilayered shells. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2629-2636.	2.1	1
28	A Preliminary Study on the Effect of Strut Waviness on the Mechanical Properties of BCC Lattice Unit Cells. Lecture Notes in Mechanical Engineering, 2022, , 431-441.	0.4	1
29	Design of multilayered VAT panels by means of higher-order plate elements. CEAS Aeronautical Journal, 2022, 13, 677-688.	1.7	1
30	Modal analysis of stiffened plates with advanced 2D finite element model. AIP Conference Proceedings, 2020, , .	0.4	0
31	Preface of the "Symposium on Mathematical Problems in Aerospace Science MPAS-2019― AIP Conference Proceedings, 2020, , .	0.4	0