Stefano Valvano

List of Publications by Year
in descending order

31	843	361413 20	501196 28
papers	citations	h-index	g-index

31	31	31	442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Design of multilayered VAT panels by means of higher-order plate elements. CEAS Aeronautical Journal, 2022, 13, 677-688.	1.7	1
3	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
4	BCC lattice cell structural characterization. Reports in Mechanical Engineering, 2021, 2, 77-85.	7.7	3
5	A simultaneous dual-parameter optical fibre single sensor embedded in a glass fibre/epoxy composite. Composite Structures, 2021, 270, 114087.	5.8	11
6	Analytical analysis of sound transmission in passive damped multilayered shells. Composite Structures, 2020, 253, 112742.	5.8	17
7	Modal analysis of stiffened plates with advanced 2D finite element model. AIP Conference Proceedings, 2020, , .	0.4	0
8	Preface of the â€œSymposium on Mathematical Problems in Aerospace Science MPAS-2019â€• AIP Conference Proceedings, 2020, , .	0.4	0
9	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
10	Analytical frequency response solution for composite plates embedding viscoelastic layers. Aerospace Science and Technology, 2019, 92, 429-445.	4.8	49
11	Design of a noise reduction passive control system based on viscoelastic multilayered plate using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>P</mml:mtext></mml:mrow><mml:mrow><mml:mi>D</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Mechanical Systems and Signal Processing, 2019, 123, 153-173.	8.0	28
12	Sound Transmission Analysis of Viscoelastic Composite Multilayered Shells Structures. Aerospace, 2019, 6, 69.	2.2	15
13	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
14	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
15	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
16	Modal analysis of delaminated plates and shells using Carrera Unified Formulation â€“ MITC9 shell element. Mechanics of Advanced Materials and Structures, 2018, 25, 681-697.	2.6	48
17	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
18	Higher-Order Shell Element for the Static and Free-Vibration Analysis of Sandwich Structures. , 2018, , .		3

#	Article	IF	Citations
19	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
20	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
21	Multilayered plate elements accounting for refined theories and node-dependent kinematics. Composites Part B: Engineering, 2017, 114, 189-210.	12.0	37
22	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
23	A variable kinematic shell formulation applied to thermal stress of laminated structures. Journal of Thermal Stresses, 2017, 40, 803-827.	2.0	37
24	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
25	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
26	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
27	Thermal stress analysis of laminated structures by a variable kinematic MITC9 shell element. Journal of Thermal Stresses, 2016, 39, 121-141.	2.0	35
28	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
29	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
30	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
31	Variable Kinematic Shell Elements for the Analysis of Electro-Mechanical Problems. Mechanics of Advanced Materials and Structures, 2015, 22, 77-106.	2.6	42