

Olivier Polit

List of Publications by Year in descending order

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115
papers

2,607
citations

159525

30
h-index

233338

45
g-index

118
all docs

118
docs citations

118
times ranked

1098
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of laminated shells by a sinusoidal shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. Composites Part B: Engineering, 2011, 42, 1276-1284.	5.9	143
2	A family of sinus finite elements for the analysis of rectangular laminated beams. Composite Structures, 2008, 84, 56-72.	3.1	128
3	Functionally graded graphene reinforced porous nanocomposite curved beams: Bending and elastic stability using a higher-order model with thickness stretch effect. Composites Part B: Engineering, 2019, 166, 310-327.	5.9	110
4	A comprehensive analysis of porous graphene-reinforced curved beams by finite element approach using higher-order structural theory: Bending, vibration and buckling. Composite Structures, 2019, 222, 110899.	3.1	99
5	A sine finite element using a zig-zag function for the analysis of laminated composite beams. Composites Part B: Engineering, 2011, 42, 1671-1682.	5.9	76
6	An efficient finite element model for static and dynamic analyses of functionally graded piezoelectric beams. Composite Structures, 2013, 104, 71-84.	3.1	74
7	A new eight-node quadrilateral shear-bending plate finite element. International Journal for Numerical Methods in Engineering, 1994, 37, 387-411.	1.5	61
8	High-order triangular sandwich plate finite element for linear and non-linear analyses. Computer Methods in Applied Mechanics and Engineering, 2000, 185, 305-324.	3.4	58
9	On the application of the Ritz method to free vibration and buckling analysis of highly anisotropic plates. Composite Structures, 2018, 192, 460-474.	3.1	54
10	Proper Generalized Decomposition and layer-wise approach for the modeling of composite plate structures. International Journal of Solids and Structures, 2013, 50, 2239-2250.	1.3	49
11	Buckling and wrinkling of anisotropic sandwich plates. International Journal of Engineering Science, 2018, 130, 136-156.	2.7	47
12	A multilayered/sandwich triangular finite element applied to linear and non-linear analyses. Composite Structures, 2002, 58, 121-128.	3.1	46
13	Bending analysis of composite laminated and sandwich structures using sublaminar variable-kinematic Ritz models. Composite Structures, 2016, 155, 45-62.	3.1	46
14	Flexural loss factors of sandwich and laminated composite beams using linear and nonlinear dynamic analysis. Composites Part B: Engineering, 1999, 30, 245-256.	5.9	45
15	ACO EIGHT-NODE MEMBRANE-SHEAR-BENDING ELEMENT FOR GEOMETRICALLY NON-LINEAR (STATIC AND) Tj ETQq1 1 0.784314 rgB / 39, 3453-3474.	1.5	43
16	Vibration of multilayered beams using sinus finite elements with transverse normal stress. Composite Structures, 2010, 92, 1524-1534.	3.1	43
17	A nonlocal higher-order model including thickness stretching effect for bending and buckling of curved nanobeams. Applied Mathematical Modelling, 2018, 57, 121-141.	2.2	43
18	Assessment of the refined sinus model for the non-linear analysis of composite beams. Composite Structures, 2009, 87, 370-381.	3.1	42

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19	An Efficient Finite Shell Element for the Static Response of Piezoelectric Laminates. Journal of Intelligent Material Systems and Structures, 2011, 22, 671-690.	1.4	42
20	Dynamic characteristics of curved nanobeams using nonlocal higher-order curved beam theory. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 190-202.	1.3	42
21	Radial basis functions collocation and a unified formulation for bending, vibration and buckling analysis of laminated plates, according to a variation of Murakami's zig-zag theory. European Journal of Mechanics, A/Solids, 2011, 30, 559-570.	2.1	41
22	On the numerical investigation of cardiovascular balloon-expandable stent using finite element method. Computational Materials Science, 2013, 79, 326-335.	1.4	40
23	A refined sine-based finite element with transverse normal deformation for the analysis of laminated beams under thermomechanical loads. Journal of Mechanics of Materials and Structures, 2009, 4, 1127-1155.	0.4	39
24	Large amplitude free flexural vibrations of functionally graded graphene platelets reinforced porous composite curved beams using finite element based on trigonometric shear deformation theory. International Journal of Non-Linear Mechanics, 2019, 116, 302-317.	1.4	39
25	A Refined Sinus Finite Element Model for the Analysis of Piezoelectric-Laminated Beams. Journal of Intelligent Material Systems and Structures, 2011, 22, 203-219.	1.4	38
26	AC1 finite element including transverse shear and torsion warping for rectangular sandwich beams. International Journal for Numerical Methods in Engineering, 1999, 45, 47-75.	1.5	35
27	Robust C^0 high-order plate finite element for thin to very thick structures: mechanical and thermo-mechanical analysis. International Journal for Numerical Methods in Engineering, 2012, 90, 429-451.	1.5	34
28	Composite beam finite element based on the Proper Generalized Decomposition. Computers and Structures, 2012, 102-103, 76-86.	2.4	34
29	Benchmark solutions and assessment of variable kinematics models for global and local buckling of sandwich struts. Composite Structures, 2016, 156, 125-134.	3.1	34
30	Vibration study of curved nanobeams based on nonlocal higher-order shear deformation theory using finite element approach. Composite Structures, 2018, 184, 821-838.	3.1	34
31	An efficient C1 finite element with continuity requirements for multilayered/sandwich shell structures. Computers and Structures, 2004, 82, 1889-1899.	2.4	32
32	Elastic stability of curved nanobeam based on higher-order shear deformation theory and nonlocal analysis by finite element approach. Finite Elements in Analysis and Design, 2018, 146, 1-15.	1.7	32
33	C1 plate and shell finite elements for geometrically nonlinear analysis of multilayered structures. Computers and Structures, 2006, 84, 1264-1274.	2.4	31
34	Two higher order Zig-Zag theories for the accurate analysis of bending, vibration and buckling response of laminated plates by radial basis functions collocation and a unified formulation. Journal of Composite Materials, 2011, 45, 2523-2536.	1.2	31
35	Assessment of plate theories for free-edge effects. Composites Part B: Engineering, 2013, 48, 111-121.	5.9	31
36	Dynamic characteristics of functionally graded graphene reinforced porous nanocomposite curved beams based on trigonometric shear deformation theory with thickness stretch effect. Mechanics of Advanced Materials and Structures, 2021, 28, 741-752.	1.5	31

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37	A thermomechanical finite element for the analysis of rectangular laminated beams. <i>Finite Elements in Analysis and Design</i> , 2006, 42, 868-883.	1.7	29
38	NURBS-based isogeometric analysis of laminated composite beams using refined sinus model. <i>European Journal of Mechanics, A/Solids</i> , 2015, 53, 34-47.	2.1	29
39	Electric potential approximations for an eight node plate finite element. <i>Computers and Structures</i> , 2006, 84, 1480-1493.	2.4	28
40	A refined sinus plate finite element for laminated and sandwich structures under mechanical and thermomechanical loads. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 396-412.	3.4	25
41	Shell finite element based on the Proper Generalized Decomposition for the modeling of cylindrical composite structures. <i>Computers and Structures</i> , 2014, 132, 1-11.	2.4	25
42	High-order plate finite elements for smart structure analysis. <i>Composite Structures</i> , 2016, 151, 81-90.	3.1	24
43	Thermal buckling response of laminated and sandwich plates using refined 2-D models. <i>Composite Structures</i> , 2017, 176, 313-328.	3.1	24
44	A high-fidelity first-order reliability analysis for shear deformable laminated composite plates. <i>Composite Structures</i> , 2014, 115, 12-28.	3.1	23
45	A sinus shear deformation model for static analysis of composite steel-concrete beams and twin-girder decks including shear lag and interfacial slip effects. <i>Thin-Walled Structures</i> , 2019, 134, 61-70.	2.7	23
46	Nonlinear bending of porous curved beams reinforced by functionally graded nanocomposite graphene platelets applying an efficient shear flexible finite element approach. <i>International Journal of Non-Linear Mechanics</i> , 2020, 119, 103346.	1.4	23
47	Dynamic buckling of classical/non-classical curved beams by nonlocal nonlinear finite element accounting for size dependent effect and using higher-order shear flexible model. <i>International Journal of Non-Linear Mechanics</i> , 2020, 125, 103536.	1.4	23
48	Supersonic flutter study of porous 2D curved panels reinforced with graphene platelets using an accurate shear deformable finite element procedure. <i>Composite Structures</i> , 2020, 241, 112058.	3.1	19
49	Coupling finite element and reliability analysis through proper generalized decomposition model reduction. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 95, 1079-1093.	1.5	18
50	Assessment of variable separation for finite element modeling of free edge effect for composite plates. <i>Composite Structures</i> , 2015, 123, 19-29.	3.1	18
51	Assessment of a composite beam finite element based on the proper generalized decomposition. <i>Composite Structures</i> , 2012, 94, 1900-1910.	3.1	17
52	Dynamic response of viscoelastic multiple-core sandwich structures. <i>Journal of Sound and Vibration</i> , 2021, 491, 115753.	2.1	17
53	Bending and Vibration of Laminated Plates by a Layerwise Formulation and Collocation with Radial Basis Functions. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 624-637.	1.5	16
54	Linearized global and local buckling analysis of sandwich struts with a refined quasi-3D model. <i>Acta Mechanica</i> , 2015, 226, 81-101.	1.1	16

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73	A 1D nonlinear finite element model for analysis of composite foam-insulated concrete sandwich panels. <i>Composite Structures</i> , 2019, 210, 663-675.	3.1	9
74	Benchmark of wrinkling formulae and methods for pre-sizing of aircraft lightweight sandwich structures. <i>Composite Structures</i> , 2021, 273, 114387.	3.1	9
75	Explicit solutions for the modeling of laminated composite plates with arbitrary stacking sequences. <i>Composites Part B: Engineering</i> , 2014, 60, 697-706.	5.9	8
76	The Ritz " Sublaminated Generalized Unified Formulation approach for piezoelectric composite plates. <i>International Journal of Smart and Nano Materials</i> , 2018, 9, 34-55.	2.0	8
77	Use of Classical Plate Finite Elements for the Analysis of Electroactive Composite Plates. Numerical Validations. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1861-1873.	1.4	7
78	A new robust quadrilateral four-node variable kinematics plate element for composite structures. <i>Finite Elements in Analysis and Design</i> , 2017, 133, 10-24.	1.7	7
79	Robust layerwise C0 finite element approach based on a variable separation method for the modeling of composite and sandwich plates. <i>Finite Elements in Analysis and Design</i> , 2018, 139, 1-13.	1.7	7
80	Modeling of composite and sandwich beams with a generic cross-section using a variable separation method. <i>Composites Part B: Engineering</i> , 2019, 165, 648-661.	5.9	7
81	A penalty-based multifiber finite element model for coupled bending and torsional-warping analysis of composite beams. <i>European Journal of Mechanics, A/Solids</i> , 2020, 80, 103915.	2.1	7
82	Hierarchical Beam Finite Elements Based Upon a Variables Separation Method. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650026.	1.3	6
83	Assessment of MITC plate elements based on CUF with respect to distorted meshes. <i>Composite Structures</i> , 2020, 238, 111962.	3.1	6
84	Thermal phenomenon of glass fibre composite under tensile static and fatigue loading. <i>Journal of Mechanical Engineering and Sciences</i> , 2017, 11, 2755-2769.	0.3	6
85	Thermal and thermo-mechanical solution of laminated composite beam based on a variables separation for arbitrary volume heat source locations. <i>Applied Mathematical Modelling</i> , 2017, 46, 98-115.	2.2	5
86	Forced vibration analysis of composite beams based on the variable separation method. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 618-634.	1.5	5
87	Robust Displacement and Mixed CUF-Based Four-Node and Eight-Node Quadrilateral Plate Elements. <i>Advanced Structured Materials</i> , 2018, , 89-118.	0.3	5
88	A Refined Sine Finite Element with Transverse Normal Stress for Thermoelastic Analysis of Laminated Composite in Cylindrical Bending. <i>Journal of Thermal Stresses</i> , 2011, 34, 1185-1204.	1.1	4
89	Modeling of composite plates based on Reissner's Mixed Variational Theorem with variables separation. <i>Composites Part B: Engineering</i> , 2016, 86, 229-242.	5.9	4
90	Multiresolution strategies for the modeling of composite shell structures based on the variable separation method. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 778-799.	1.5	4

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91	Forced vibration analysis of composite beams with piezoelectric layers based on the variable separation method. <i>Composite Structures</i> , 2021, 273, 114248.	3.1	4
92	Experimental analysis of thermal and damage evolutions of DCFC under static and fatigue loading. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2016, 26, 165-184.	0.2	4
93	Refined Sine Theory Including Transverse Normal Stress in Cylindrical Bending. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 405-414.	1.5	3
94	Features selection and classification to estimate elbow movements. <i>Journal of Physics: Conference Series</i> , 2015, 657, 012012.	0.3	3
95	Analysis of functionally graded plates based on a variable separation method. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 4890-4901.	1.5	3
96	Optimisation of an ultrasonic torsion fatigue system for high strength materials. <i>International Journal of Fatigue</i> , 2021, 151, 106395.	2.8	3
97	Damage Observation of Glass Fiber/Epoxy Composites Using Thermography and Supported by Acoustic Emission. <i>Applied Mechanics and Materials</i> , 0, 627, 187-190.	0.2	2
98	Modeling of composite plates with an arbitrary hole location using the variable separation method. <i>Computers and Structures</i> , 2017, 192, 157-170.	2.4	2
99	Classical, first order, and advanced theories. , 2017, , 91-140.		2
100	Acoustic fluid-structure study of 2D cavity with composite curved flexible walls using graphene platelets reinforcement by higher-order finite element approach. <i>Composite Structures</i> , 2021, 272, 114180.	3.1	2
101	A C ⁰ eight node finite element based on a shell theory. <i>Revue Europeenne Des Elements</i> , 1999, 8, 111-134.	0.1	1
102	Analysis of Laminated Plates by Trigonometric Theory, Radial Basis, and Unified Formulation. <i>AIAA Journal</i> , 2011, 49, 1559-1562.	1.5	1
103	Design, Modeling and Experiments of Adaptive Structures and Smart Systems III. <i>Mechanics of Advanced Materials and Structures</i> , 2011, 18, 467-468.	1.5	1
104	Elbow flexion and extension identification using surface electromyography signals. , 2015, , .		1
105	Hybrid kinematic model applied to the under-actuated robotic hand prosthesis ProMain-I and experimental evaluation. , 2015, , .		1
106	Modeling of cylindrical composite shell structures based on the Reissner's Mixed Variational Theorem with a variable separation method. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2019, 6, .	0.7	1
107	Analytical and experimental postbuckling of conditioned cables. <i>Structural Engineering and Mechanics</i> , 2001, 12, 595-614.	1.0	1
108	Application d'un modèle de flambement conditionné à la pose des câbles à fibres optiques. <i>Mecanique Et Industries</i> , 2000, 1, 131-139.	0.2	0

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109	Analyse non linéaire géométrique de plaques multicouches. Revue Européenne Des Elements, 2000, 9, 295-314.	0.1	0
110	Optimization of Laminated Composite Plates with Reliability Constraints. , 2008, , .		0
111	Morphological Optimization of Prosthesisâ€™ Finger for Precision Grasping. Mechanisms and Machine Science, 2016, , 249-263.	0.3	0
112	Variable Kinematics Models for Advanced Composite Plates. Advanced Structured Materials, 2022, , 23-34.	0.3	0
113	Comparison of different degenerated approaches for the modeling of composite shell structures. Finite Elements in Analysis and Design, 2021, 195, 103585.	1.7	0
114	Thermal Stress Analysis of Homogeneous and Laminated Shells by Finite Element Method. , 2014, , 5174-5190.		0
115	Explicit solution of functionally graded plates with respect to law indexes based on a variable separation method. European Journal of Mechanics, A/Solids, 2022, 96, 104668.	2.1	0