Olivier Polit

List of Publications by Year
in descending order

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	Nonlinear flexural free vibrations of size-dependent graphene platelets reinforced curved nano/micro beams by finite element approach coupled with trigonometric shear flexible theory. Mechanics of Advanced Materials and Structures, 2022, 29, 2489-2515.	1.5	12
2	Analysis of functionally graded plates based on a variable separation method. Mechanics of Advanced Materials and Structures, 2022, 29, 4890-4901.	1.5	3
3	Variable Kinematics Models for Advanced Composite Plates. Advanced Structured Materials, 2022, , 23-34.	0.3	0
4	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
5	Forced vibration analysis of composite beams based on the variable separation method. Mechanics of Advanced Materials and Structures, 2021, 28, 618-634.	1.5	5
6	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
7	Dynamic response of viscoelastic multiple-core sandwich structures. Journal of Sound and Vibration, 2021, 491, 115753.	2.1	17
8	A quasi-3D finite element model for the analysis of thin-walled beams under axialâ€“flexuralâ€“torsional loads. Thin-Walled Structures, 2021, 164, 107811.	2.7	16
9	Acoustic fluidâ€“structure study of 2D cavity with composite curved flexible walls using graphene platelets reinforcement by higher-order finite element approach. Composite Structures, 2021, 272, 114180.	3.1	2
10	Benchmark of wrinkling formulae and methods for pre-sizing of aircraft lightweight sandwich structures. Composite Structures, 2021, 273, 114387.	3.1	9
11	Forced vibration analysis of composite beams with piezoelectric layers based on the variable separation method. Composite Structures, 2021, 273, 114248.	3.1	4
12	Optimisation of an ultrasonic torsion fatigue system for high strength materials. International Journal of Fatigue, 2021, 151, 106395.	2.8	3
13	Comparison of different degenerated approaches for the modeling of composite shell structures. Finite Elements in Analysis and Design, 2021, 195, 103585.	1.7	0
14	Nonlinear bending of porous curved beams reinforced by functionally graded nanocomposite graphene platelets applying an efficient shear flexible finite element approach. International Journal of Non-Linear Mechanics, 2020, 119, 103346.	1.4	23
15	A penalty-based multifiber finite element model for coupled bending and torsional-warping analysis of composite beams. European Journal of Mechanics, A/Solids, 2020, 80, 103915.	2.1	7
16	Assessment of MITC plate elements based on CUF with respect to distorted meshes. Composite Structures, 2020, 238, 111962.	3.1	6
17	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. International Journal of Non-Linear Mechanics, 2020, 125, 103536.	1.4	23
18	Nonlinear supersonic flutter study of porous 2D curved panels including graphene platelets reinforcement effect using trigonometric shear deformable finite element. International Journal of Non-Linear Mechanics, 2020, 125, 103543.	1.4	12

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19	Supersonic flutter study of porous 2D curved panels reinforced with graphene platelets using an accurate shear deformable finite element procedure. Composite Structures, 2020, 241, 112058.	3.1	19
20	A family of higher-order single layer plate models meeting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1598.svg"><mml:mrow><mml:msubsup><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mi>z</mml:mi> for arbitrary laminates. Composite Structures, 2019, 225, 111146.	3.1	10
21	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
22	Modeling of cylindrical composite shell structures based on the Reissnerâ€™s Mixed Variational Theorem with a variable separation method. Advanced Modeling and Simulation in Engineering Sciences, 2019, 6, .	0.7	1
23	Free vibration analysis of composite plates based on a variable separation method. Composite Structures, 2019, 230, 111493.	3.1	10
24	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
25	Modeling of composite and sandwich beams with a generic cross-section using a variable separation method. Composites Part B: Engineering, 2019, 165, 648-661.	5.9	7
26	A 1D nonlinear finite element model for analysis of composite foam-insulated concrete sandwich panels. Composite Structures, 2019, 210, 663-675.	3.1	9
27	Multiresolution strategies for the modeling of composite shell structures based on the variable separation method. International Journal for Numerical Methods in Engineering, 2019, 117, 778-799.	1.5	4
28	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
29	A sinus shear deformation model for static analysis of composite steel-concrete beams and twin-girder decks including shear lag and interfacial slip effects. Thin-Walled Structures, 2019, 134, 61-70.	2.7	23
30	A nonlocal higher-order curved beam finite model including thickness stretching effect for bending analysis of curved nanobeams. Mechanics of Advanced Materials and Structures, 2019, 26, 614-630.	1.5	16
31	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
32	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
33	The Ritz â€“ Sublaminate Generalized Unified Formulation approach for piezoelectric composite plates. International Journal of Smart and Nano Materials, 2018, 9, 34-55.	2.0	8
34	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
35	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
36	Robust layerwise C 0 finite element approach based on a variable separation method for the modeling of composite and sandwich plates. Finite Elements in Analysis and Design, 2018, 139, 1-13.	1.7	7

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37	Buckling and wrinkling of anisotropic sandwich plates. International Journal of Engineering Science, 2018, 130, 136-156.	2.7	47
38	Robust Displacement and Mixed CUF-Based Four-Node and Eight-Node Quadrilateral Plate Elements. Advanced Structured Materials, 2018, , 89-118.	0.3	5
39	Thermal and thermo-mechanical solution of laminated composite beam based on a variables separation for arbitrary volume heat source locations. Applied Mathematical Modelling, 2017, 46, 98-115.	2.2	5
40	A new robust quadrilateral four-node variable kinematics plate element for composite structures. Finite Elements in Analysis and Design, 2017, 133, 10-24.	1.7	7
41	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
42	Thermal buckling response of laminated and sandwich plates using refined 2-D models. Composite Structures, 2017, 176, 313-328.	3.1	24
43	Modeling of composite plates with an arbitrary hole location using the variable separation method. Computers and Structures, 2017, 192, 157-170.	2.4	2
44	Assessment of FGPM shunt damping for vibration reduction of laminated composite beams. Journal of Sound and Vibration, 2017, 389, 101-118.	2.1	10
45	Classical, first order, and advanced theories. , 2017, , 91-140.		2
46	Thermal phenomenon of glass fibre composite under tensile static and fatigue loading. Journal of Mechanical Engineering and Sciences, 2017, 11, 2755-2769.	0.3	6
47	Modeling of piezoelectric plates with variables separation for static analysis. Smart Materials and Structures, 2016, 25, 055043.	1.8	10
48	Morphological Optimization of Prosthesisâ€™ Finger for Precision Grasping. Mechanisms and Machine Science, 2016, , 249-263.	0.3	0
49	Hierarchical Beam Finite Elements Based Upon a Variables Separation Method. International Journal of Applied Mechanics, 2016, 08, 1650026.	1.3	6
50	Bending analysis of composite laminated and sandwich structures using sublaminate variable-kinematic Ritz models. Composite Structures, 2016, 155, 45-62.	3.1	46
51	Thermo-mechanical analysis of laminated composite and sandwich beams based on a variables separation. Composite Structures, 2016, 152, 755-766.	3.1	9
52	High-order plate finite elements for smart structure analysis. Composite Structures, 2016, 151, 81-90.	3.1	24
53	Assessment of free-edge singularities in composite laminates using higher-order plate elements. Mechanics of Advanced Materials and Structures, 2016, 23, 948-959.	1.5	15
54	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

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55	Modeling of composite plates based on Reissner's Mixed Variational Theorem with variables separation. Composites Part B: Engineering, 2016, 86, 229-242.	5.9	4
56	Experimental analysis of thermal and damage evolutions of DCFC under static and fatigue loading. Revue Des Composites Et Des Materiaux Avances, 2016, 26, 165-184.	0.2	4
57	Features selection and classification to estimate elbow movements. Journal of Physics: Conference Series, 2015, 657, 012012.	0.3	3
58	Elbow flexion and extension identification using surface electromyography signals. , 2015, , .		1
59	Hybrid kinematic model applied to the under-actuated robotic hand prosthesis ProMain-I and experimental evaluation. , 2015, , .		1
60	Assessment of variable separation for finite element modeling of free edge effect for composite plates. Composite Structures, 2015, 123, 19-29.	3.1	18
61	An analysis of composite beams by means of hierarchical finite elements and a variables separation method. Computers and Structures, 2015, 158, 15-29.	2.4	10
62	NURBS-based isogeometric analysis of laminated composite beams using refined sinus model. European Journal of Mechanics, A/Solids, 2015, 53, 34-47.	2.1	29
63	Linearized global and local buckling analysis of sandwich struts with a refined quasi-3D model. Acta Mechanica, 2015, 226, 81-101.	1.1	16
64	A high-fidelity first-order reliability analysis for shear deformable laminated composite plates. Composite Structures, 2014, 115, 12-28.	3.1	23
65	Shell finite element based on the Proper Generalized Decomposition for the modeling of cylindrical composite structures. Computers and Structures, 2014, 132, 1-11.	2.4	25
66	Assessment of the refined sinus plate finite element: Free edge effect and Meyer-Piening sandwich test. Finite Elements in Analysis and Design, 2014, 92, 60-71.	1.7	14
67	Explicit solutions for the modeling of laminated composite plates with arbitrary stacking sequences. Composites Part B: Engineering, 2014, 60, 697-706.	5.9	8
68	Coupling of heterogeneous kinematics and Finite Element approximations applied to composite beam structures. Composite Structures, 2014, 116, 177-192.	3.1	13
69	Thermal Stress Analysis of Homogeneous and Laminated Shells by Finite Element Method. , 2014, , 5174-5190.		0
70	On the numerical investigation of cardiovascular balloon-expandable stent using finite element method. Computational Materials Science, 2013, 79, 326-335.	1.4	40
71	Bending and Vibration of Laminated Plates by a Layerwise Formulation and Collocation with Radial Basis Functions. Mechanics of Advanced Materials and Structures, 2013, 20, 624-637.	1.5	16
72	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

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73	Refined Sine Theory Including Transverse Normal Stress in Cylindrical Bending. Mechanics of Advanced Materials and Structures, 2013, 20, 405-414.	1.5	3
74	An efficient finite element model for static and dynamic analyses of functionally graded piezoelectric beams. Composite Structures, 2013, 104, 71-84.	3.1	74
75	Assessment of plate theories for free-edge effects. Composites Part B: Engineering, 2013, 48, 111-121.	5.9	31
76	A refined sinus plate finite element for laminated and sandwich structures under mechanical and thermomechanical loads. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 396-412.	3.4	25
77	Coupling finite element and reliability analysis through proper generalized decomposition model reduction. International Journal for Numerical Methods in Engineering, 2013, 95, 1079-1093.	1.5	18
78	Analysis of sandwich plates by radial basis functions collocation, according to Murakami's Zig-Zag theory. Journal of Sandwich Structures and Materials, 2012, 14, 505-524.	2.0	14
79	Robust C⁰ highâ€order plate finite element for thin to very thick structures: mechanical and thermoâ€mechanical analysis. International Journal for Numerical Methods in Engineering, 2012, 90, 429-451.	1.5	34
80	Composite beam finite element based on the Proper Generalized Decomposition. Computers and Structures, 2012, 102-103, 76-86.	2.4	34
81	Assessment of a composite beam finite element based on the proper generalized decomposition. Composite Structures, 2012, 94, 1900-1910.	3.1	17
82	Refined shell model for the linear analysis of isotropic and composite elastic structures. European Journal of Mechanics, A/Solids, 2012, 34, 102-119.	2.1	10
83	Analysis of Laminated Plates by Trigonometric Theory, Radial Basis, and Unified Formulation. AIAA Journal, 2011, 49, 1559-1562.	1.5	1
84	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
85	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
86	Radial basis functions collocation and a unified formulation for bending, vibration and buckling analysis of laminated plates, according to a variation of Murakamiâ€™s zig-zag theory. European Journal of Mechanics, A/Solids, 2011, 30, 559-570.	2.1	41
87	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
88	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
89	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
90	Design, Modeling and Experiments of Adaptive Structures and Smart Systems III. Mechanics of Advanced Materials and Structures, 2011, 18, 467-468.	1.5	1

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91	A Refined Sine Finite Element with Transverse Normal Stress for Thermoelastic Analysis of Laminated Composite in Cylindrical Bending. Journal of Thermal Stresses, 2011, 34, 1185-1204.	1.1	4
92	Vibration of multilayered beams using sinus finite elements with transverse normal stress. Composite Structures, 2010, 92, 1524-1534.	3.1	43
93	Use of Classical Plate Finite Elements for the Analysis of Electroactive Composite Plates. Numerical Validations. Journal of Intelligent Material Systems and Structures, 2009, 20, 1861-1873.	1.4	7
94	Sensitivity Analysis of Thickness Assumptions for Piezoelectric Plate Models. Journal of Intelligent Material Systems and Structures, 2009, 20, 1815-1834.	1.4	13
95	Assessment of the refined sinus model for the non-linear analysis of composite beams. Composite Structures, 2009, 87, 370-381.	3.1	42
96	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
97	A family of sinus finite elements for the analysis of rectangular laminated beams. Composite Structures, 2008, 84, 56-72.	3.1	128
98	Optimization of Laminated Composite Plates with Reliability Constraints. , 2008, , .		0
99	Active Control of Laminated Plates Using a Piezoelectric Finite Element. Mechanics of Advanced Materials and Structures, 2008, 15, 276-290.	1.5	10
100	A thermomechanical finite element for the analysis of rectangular laminated beams. Finite Elements in Analysis and Design, 2006, 42, 868-883.	1.7	29
101	C1 plate and shell finite elements for geometrically nonlinear analysis of multilayered structures. Computers and Structures, 2006, 84, 1264-1274.	2.4	31
102	Electric potential approximations for an eight node plate finite element. Computers and Structures, 2006, 84, 1480-1493.	2.4	28
103	An efficient C1 finite element with continuity requirements for multilayered/sandwich shell structures. Computers and Structures, 2004, 82, 1889-1899.	2.4	32
104	A multilayered/sandwich triangular finite element applied to linear and non-linear analyses. Composite Structures, 2002, 58, 121-128.	3.1	46
105	Analytical and experimental postbuckling of conditioned cables. Structural Engineering and Mechanics, 2001, 12, 595-614.	1.0	1
106	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
107	Application d'un modÃƒÂ¨le de flambement conditionnÃƒÂ© ÃƒÂ la pose des cÃƒÂ¢bles ÃƒÂ fibres optiques. Mecanique Et Industries, 2000, 1, 131-139.	0.2	0
108	Analyse non linÃ©aire gÃ©omÃ©trique de plaques multicouches. Revue Europeenne Des Elements, 2000, 9, 295-314.	0.1	0

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109	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
110	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
111	A C⁰eight node finite element based on a shell theory. Revue Europeenne Des Elements, 1999, 8, 111-134.	0.1	1
112	A new laminated triangular finite element assuring interface continuity for displacements and stresses. Composite Structures, 1997, 38, 37-44.	3.1	9
113	AC0 EIGHT-NODE MEMBRANE-SHEAR-BENDING ELEMENT FOR GEOMETRICALLY NON-LINEAR (STATIC AND) Tj ETQq1 1 0.784314 rgB 39, 3453-3474.	1.5	43
114	A new eight-node quadrilateral shear-bending plate finite element. International Journal for Numerical Methods in Engineering, 1994, 37, 387-411.	1.5	61
115	Damage Observation of Glass Fiber/Epoxy Composites Using Thermography and Supported by Acoustic Emission. Applied Mechanics and Materials, 0, 627, 187-190.	0.2	2