

Rosalin Sahoo

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

560
citations

949033

11
h-index

721071

23
g-index

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all docs

30
docs citations

30
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element analysis of smart composite plate structures coupled with piezoelectric materials: Investigation of static and vibration responses. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6118-6143.	1.5	6
2	Accurate stress analysis of laminated composite and sandwich plates. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 96-111.	1.0	8
3	Transient analysis of smart composite laminate. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 225-248.	1.0	1
4	Assessment of inverse hyperbolic zigzag theory for buckling analysis of laminated composite and sandwich plates using finite element method. <i>Archive of Applied Mechanics</i> , 2021, 91, 169-186.	1.2	9
5	Static and dynamic responses of simply supported sandwich plates using non-polynomial zigzag theory. <i>Structures</i> , 2021, 29, 1911-1933.	1.7	5
6	Forced Vibration Responses of Smart Composite Plates using Trigonometric Zigzag Theory. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150067.	1.5	8
7	Trigonometric zigzag theory for free vibration and transient responses of cross-ply laminated composite plates. <i>Mechanics of Materials</i> , 2021, 155, 103732.	1.7	8
8	Analytical solution for static and free vibration analysis of functionally graded CNT-reinforced sandwich plates. <i>Archive of Applied Mechanics</i> , 2021, 91, 3819-3834.	1.2	11
9	Random vibration response of composite sandwich laminates. <i>Archive of Applied Mechanics</i> , 2021, 91, 3755-3771.	1.2	3
10	A non-polynomial axiomatic framework for modelling and bending analysis of doubly curved spherical and cylindrical shells: An analytical solution. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 2083-2099.	0.7	1
11	Estimation of carbon nanotubes and their applications as reinforcing composite materials—An engineering review. <i>Composite Structures</i> , 2021, 272, 114234.	3.1	82
12	Static and free vibration analysis of functionally graded CNT reinforced sandwich plates using inverse hyperbolic shear deformation theory. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 386-403.	1.0	8
13	A study on the stress and vibration characteristics of laminated composite plates resting on elastic foundations using analytical and finite element solutions. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	3
14	Static and free vibration analysis of functionally graded CNT reinforced composite plates using trigonometric shear deformation theory. <i>Structures</i> , 2020, 28, 685-696.	1.7	24
15	Assessment of Inverse Hyperbolic Zigzag Theory for Hygro-Thermomechanical Analysis of Laminated Composite and Sandwich Plates. <i>Journal of Aerospace Engineering</i> , 2020, 33, .	0.8	4
16	Stress analysis of smart composite plate structures. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, , 095440622097544.	1.1	2
17	Analytical modeling of laminated composite plates integrated with piezoelectric layer using Trigonometric Zigzag theory. <i>Journal of Composite Materials</i> , 2020, 54, 4691-4708.	1.2	6
18	Flexural Behavior of Functionally Graded Plates with Piezoelectric Materials. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 9227-9248.	1.7	1

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19	Nonpolynomial Zigzag Theories for Random Static Analysis of Laminated-Composite and Sandwich Plates. <i>AIAA Journal</i> , 2019, 57, 437-447.	1.5	5
20	Trigonometric zigzag theory for static analysis of laminated composite and sandwich plates under hygro-thermo-mechanical loading. <i>Composite Structures</i> , 2019, 209, 460-471.	3.1	19
21	Assessment of dynamic instability of laminated composite-sandwich plates. <i>Aerospace Science and Technology</i> , 2018, 81, 41-52.	2.5	19
22	Influence of parametric uncertainties on the deflection statistics of general laminated composite and sandwich plates. <i>Composite Structures</i> , 2017, 171, 158-169.	3.1	20
23	Dynamic Instability of Laminated-Composite and Sandwich Plates Using a New Inverse Trigonometric Zigzag Theory. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.0	8
24	Assessment of zigzag theories for free vibration analysis of laminated-composite and sandwich plates. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2015, 229, 1931-1949.	0.7	11
25	Assessment of inverse trigonometric zigzag theory for stability analysis of laminated composite and sandwich plates. <i>International Journal of Mechanical Sciences</i> , 2015, 101-102, 145-154.	3.6	14
26	Dynamic Instability of Laminated Composite and Sandwich Plates Using a New Inverse Hyperbolic Zigzag Theory. <i>Journal of Aerospace Engineering</i> , 2015, 28, .	0.8	7
27	A new trigonometric zigzag theory for static analysis of laminated composite and sandwich plates. <i>Aerospace Science and Technology</i> , 2014, 35, 15-28.	2.5	48
28	A new trigonometric zigzag theory for buckling and free vibration analysis of laminated composite and sandwich plates. <i>Composite Structures</i> , 2014, 117, 316-332.	3.1	87
29	A new shear deformation theory for the static analysis of laminated composite and sandwich plates. <i>International Journal of Mechanical Sciences</i> , 2013, 75, 324-336.	3.6	59
30	A new inverse hyperbolic zigzag theory for the static analysis of laminated composite and sandwich plates. <i>Composite Structures</i> , 2013, 105, 385-397.	3.1	73