

Chetan Kumar Hirwani

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

620
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567281

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677142

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38
docs citations

38
times ranked

344
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Experimental and numerical analysis of free vibration of delaminated curved panel. <i>Aerospace Science and Technology</i> , 2016, 54, 353-370. | 4.8 | 59 |
| 2 | Acoustic radiation and frequency response of higher-order shear deformable multilayered composite doubly curved shell panel – An experimental validation. <i>Applied Acoustics</i> , 2018, 133, 38-51. | 3.3 | 37 |
| 3 | Numerical Study of Frequency and Deflection Responses of Natural Fiber (Luffa) Reinforced Polymer Composite and Experimental Validation. <i>Journal of Natural Fibers</i> , 2020, 17, 505-519. | 3.1 | 36 |
| 4 | Nonlinear Finite Element Analysis of Transient Behavior of Delaminated Composite Plate. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2018, 140, . | 1.6 | 33 |
| 5 | Nonlinear thermal free vibration frequency analysis of delaminated shell panel using FEM. <i>Composite Structures</i> , 2019, 224, 111011. | 5.8 | 28 |
| 6 | Numerical nonlinear frequency analysis of pre-damaged curved layered composite structure using higher-order finite element method. <i>International Journal of Non-Linear Mechanics</i> , 2018, 102, 14-24. | 2.6 | 26 |
| 7 | Numerical Study and Experimental Validation of Dynamic Characteristics of Delaminated Composite Flat and Curved Shallow Shell Structure. <i>Journal of Aerospace Engineering</i> , 2017, 30, . | 1.4 | 25 |
| 8 | Geometrically nonlinear deflection and stress analysis of skew sandwich shell panel using higher-order theory. <i>Engineering With Computers</i> , 2019, 35, 467-485. | 6.1 | 25 |
| 9 | Flexural strength of delaminated composite plate – An experimental validation. <i>International Journal of Damage Mechanics</i> , 2018, 27, 296-329. | 4.2 | 24 |
| 10 | Nonlinear Transient Finite-Element Analysis of Delaminated Composite Shallow Shell Panels. <i>AIAA Journal</i> , 2017, 55, 1734-1748. | 2.6 | 23 |
| 11 | Thermomechanical deflection and stress responses of delaminated shallow shell structure using higher-order theories. <i>Composite Structures</i> , 2018, 184, 135-145. | 5.8 | 22 |
| 12 | Nonlinear Free Vibration Analysis of Laminated Carbon/Epoxy Curved Panels. <i>Defence Science Journal</i> , 2017, 67, 207. | 0.8 | 21 |
| 13 | Numerical Analysis of Transient Responses of Delaminated Layered Structure Using Different Mid-plane Theories and Experimental Validation. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019, 43, 41-56. | 1.3 | 20 |
| 14 | Effect of magnetostrictive material layer on the stress and deformation behaviour of laminated structure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 178, 012026. | 0.6 | 19 |
| 15 | Numerical eigenfrequency and experimental verification of variable cutout (square/rectangular) borne layered glass/epoxy flat/curved panel structure. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1640-1657. | 4.7 | 18 |
| 16 | Nonlinear transient analysis of delaminated curved composite structure under blast/pulse load. <i>Engineering With Computers</i> , 2020, 36, 1201-1214. | 6.1 | 16 |
| 17 | Numerical and experimental validation of nonlinear deflection and stress responses of pre-damaged glass-fibre reinforced composite structure. <i>Ocean Engineering</i> , 2018, 159, 237-252. | 4.3 | 15 |
| 18 | Nonlinear finite element solutions of thermoelastic deflection and stress responses of internally damaged curved panel structure. <i>Applied Mathematical Modelling</i> , 2019, 65, 303-317. | 4.2 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Optimal deflection and stacking sequence prediction of curved composite structure using hybrid (FEM and soft computing) technique. <i>Engineering With Computers</i> , 2021, 37, 477-487. | 6.1 | 15 |
| 20 | Nonlinear steady-state responses of weakly bonded composite shell structure under hygro-thermo-mechanical loading. <i>Composite Structures</i> , 2021, 265, 113768. | 5.8 | 15 |
| 21 | Eigenfrequency and deflection analysis of layered structure using uncertain elastic properties – a fuzzy finite element approach. <i>International Journal of Approximate Reasoning</i> , 2018, 98, 163-176. | 3.3 | 13 |
| 22 | Delamination Effect on Flexural Responses of Layered Curved Shallow Shell Panel-Experimental and Numerical Analysis. <i>International Journal of Computational Methods</i> , 2018, 15, 1850027. | 1.3 | 13 |
| 23 | Design and fabrication of thermoelectric waste heat reutilization system-possible industrial application. <i>International Journal of Energy Research</i> , 2018, 42, 3977-3986. | 4.5 | 13 |
| 24 | Numerical and experimental nonlinear dynamic response reduction of smart composite curved structure using collocation and non-collocation configuration. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 1601-1619. | 2.1 | 13 |
| 25 | Influence of debonding on nonlinear deflection responses of curved composite panel structure under hygro-thermo-mechanical loading – macro-mechanical FE approach. <i>International Journal of Non-Linear Mechanics</i> , 2021, 128, 103636. | 2.6 | 12 |
| 26 | Theoretical and experimental validation of nonlinear deflection and stress responses of an internally debonded layer structure using different higher-order theories. <i>Acta Mechanica</i> , 2018, 229, 3453-3473. | 2.1 | 11 |
| 27 | Effect of delamination on vibration behaviour of woven Glass/Epoxy composite plate-An experimental study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 115, 012010. | 0.6 | 9 |
| 28 | Effect of welding current in TIG welding 304L steel on temperature distribution, microstructure and mechanical properties. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1. | 1.6 | 9 |
| 29 | Numerical analysis of vibration and transient behaviour of laminated composite curved shallow shell structure: an experimental validation. <i>Scientia Iranica</i> , 2017, . | 0.4 | 8 |
| 30 | Simulation Study of Stress and Deformation Behaviour of Debonded Laminated Structure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 178, 012005. | 0.6 | 5 |
| 31 | Investigation of TIG Cladding of NiTi Wire on Substrate 304L to Study the Effect of Applied Current on Microstructure and Mechanical Properties. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 1333-1348. | 1.5 | 5 |
| 32 | Dynamic Behaviour of Delaminated Composite Plate Under Blast Loading. , 2017, , . | | 4 |
| 33 | Dynamic deflection responses of glass/epoxy hybrid composite structure filled with hollow-glass microbeads. <i>European Physical Journal Plus</i> , 2021, 136, 1. | 2.6 | 4 |
| 34 | Numerical Flexural Strength Analysis of Thermally Stressed Delaminated Composite Structure under Sinusoidal Loading. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012019. | 0.6 | 3 |
| 35 | Eigenfrequency Behavior of Banana/Glass/Epoxy Hybrid Composite-A Numerical and Experimental Investigation. <i>Journal of Natural Fibers</i> , 2022, 19, 9514-9530. | 3.1 | 3 |
| 36 | Numerical hygrothermal frequency of pre-damage shallow shell panel: A nonlinear FE approach. <i>Waves in Random and Complex Media</i> , 0, , 1-15. | 2.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | The effect of hybridisation by hollow glass-cenosphere on the modal response of the laminated composite plate. <i>Materials Today: Proceedings</i> , 2020, 33, 5024-5028. | 1.8 | 1 |
| 38 | Study of microstructure and mechanical properties of NiTi wire cladding on super austenitic stainless steel 904L by TIG cladding process. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021, 46, 1. | 1.3 | 0 |