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## RESEARCH METRICS

|                    |     |
|--------------------|-----|
| h-index (Scopus)   | 0   |
| h-index (GS)       | 13  |
| Citations (Scopus) | 0   |
| Citations (GS)     | 505 |
| Documents (Scopus) | 0   |
| Documents (GS)     | 44  |



# Haider Majed Tuma

حيدر ماجد طعمة حسون

## PUBLICATIONS ( 44 )

- Influence of hybridization and fibre architecture on the translaminar fracture toughness of woven composite laminates**  
*Journal of Composite Materials*, 00219983261434766, 2026 | 2026
- The effect of notches on the mechanical properties and damage failures of fibre-metal laminates: an experimental and numerical study**  
*Proceedings of the Institution of Mechanical Engineers, Part L: Journal of*..., 2026 | 2026 | Cited: 4
- Experimental and Numerical Investigation of Mechanical Properties of Sandwich Composite Structures: Effects of Skin Architectures**  
*Iranian Journal of Science and Technology, Transactions of Mechanical*..., 2026 | 2026 | Cited: 1
- Experimental and numerical investigation of low-velocity impact response of bouligand carbon/epoxy composites**  
*Journal of Reinforced Plastics and Composites*, 07316844261452812, 2026 | 2026
- Effect of thermoplastic particles on the mechanical performance and damage failure of notched fibre metal laminates**  
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- Mechanical strength and vibration-Damping characteristics of 2D and 3D glass woven composites with graphene nanoparticles**  
*Journal of Composite Materials*, 00219983251395396, 2025 | 2025
- Enhancing the mechanical and biological properties of artificial bone regeneration with functionally graded ceramics**  
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- Enhancement of mechanical, physical, and electrical performances of epoxy composites by inclusion nano-particles: A review**  
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- Improving The Mechanical and Electrical Performance Of Composite Laminates By Including Nano-particles**  
*Wasit Journal of Engineering Sciences* 13 (2), 14-36, 2025 | 2025
- Effect of core hybridization on the mechanical performance of sandwich composites**  
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- Influence of silicon nanosheet (SiNS) on the toughness of biphasic calcium phosphate (BCP) composites**  
*Fracture and Structural Integrity* 19 (72), 137-147, 2025 | 2025 | Cited: 2
- A comprehensive review on electrospinning: mechanisms, functional modifications and the importance of nanofiber systems**  
*International Journal of Nanoscience* 24 (06), 2530002, 2025 | 2025 | Cited: 5
- Investigating the Mechanical, Physical and Biological Properties of PMMA/TiO2 Composites with Nanoclay for Denture Applications**  
*Engineering Transactions* 73 (1), 29-43, 2025 | 2025 | Cited: 3
- Experimental and numerical study on failure mechanisms of sandwich composite structure: Effect of auxetic core**  
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- Effect of nanofillers on the Mechanical Performances and Self-healing of Composite laminates: Article Review**  
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- Compressive Performances of 3D-bio-inspired Auxetic Metamaterials: Design and Experiments**  
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17. **The effect of hybridisation reinforcement on the mechanical and physical properties of under-knee prosthesis sockets made of composite laminates**  
*AIP Conference Proceedings* 3091 (1), 030002, 2024 | 2024
18. **Reinforcement effects on the mechanical properties of prosthesis sockets made of composite laminates**  
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19. **Out-of-plane compressive properties of a butterfly-shaped auxetic metamaterial**  
*Smart Materials and Structures* 33 (11), 115031, 2024 | 2024 | Cited: 40
20. **Studying the influence of micro-particles on the mechanical performance and damage failures of composite laminates**  
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21. **Experimental and Numerical Stress-Strain Analyses of Conventional and Intricate Shapes of LCS (1008-AISI) Sheet Metal Under Deep Drawing Operation**  
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22. **Enhancing the fire-resistance performance of composite laminates via multi-scale hybridisation: A review**  
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23. **Radial clearance influence on strain and stress distribution of the polygonal shape deep-drawing operation**  
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24. **Influence of fibre architectures on the mechanical properties and damage failures of composite laminates**  
*Journal of Failure Analysis and Prevention* 24 (4), 1906-1915, 2024 | 2024 | Cited: 7
25. **Piezoresistive response of carbon nanotube and carbon fiber/epoxy composites under cyclic loading**  
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26. **Improving the impact resistance and damage tolerance of fibre reinforced composites: A review**  
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27. **Optimization of the mechanical performance and damage failure characteristics of laminated composites based on fiber orientation**  
*Frontiers of Structural and Civil Engineering* 17 (9), 1357-1369, 2023 | 2023 | Cited: 16
28. **Enhancing the mechanical performance of notched glass/epoxy composite laminates via hybridisation with thermoplastic fibres**  
*Journal of Composite Materials* 57 (23), 3703-3721, 2023 | 2023 | Cited: 11
29. **Experimental and numerical study on redrawing cylindrical products to polygon shapes**  
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30. **Enhancing the quasi-static strength of prosthetic socket made from composite laminates via hybridisation: Experimental and numerical study**  
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31. **Investigation of the impact and post-impact behaviour of glass and glass/natural fibre hybrid composites made with various stacking sequences: Experimental and theoretical analysis**  
*Journal of Industrial Textiles* 51 (8), 1264-1294, 2022 | 2022 | Cited: 57
32. **Influence of yarn hybridisation and fibre architecture on the compaction response of woven fabric preforms during composite manufacturing**  
*Journal of Industrial Textiles* 51 (3\_suppl), 50625-50855, 2022 | 2022 | Cited: 10
33. **Improving the fracture toughness of glass/epoxy laminates through intra-yarns hybridisation**  
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34. **Effect of intra-yarn hybridisation and fibre architecture on the impact response of composite laminates: experimental and numerical analysis**  
*Proceedings of the Institution of Mechanical Engineers, Part C: Journal of* 2022 | 2022 | Cited: 14
35. **Improving the mechanical performance and impact damage tolerance of glass composite laminates via multi-scales of hybridisation**  
*Proceedings of the Institution of Mechanical Engineers, Part L: Journal of* 2022 | 2022 | Cited: 16

36. **Influence of yarn-hybridisation on the mechanical performance and thermal conductivity of composite laminates**  
*Journal of Industrial Textiles* 51 (3\_suppl), 5086S-5112S, 2022 | 2022 | Cited: 5
37. **Influence of nanoparticles reinforcements on the mechanical performance and tribological properties of aluminum 6082 alloys**  
*Engineering Transactions* 70 (4), 391-405, 2022 | 2022 | Cited: 5
38. **The role of hybridisation and fibre architecture on the post-impact flexural behaviour of composite laminates**  
*Journal of Composite Materials* 55 (11), 1499-1515, 2021 | 2021 | Cited: 28
39. **The influence of the inter-ply hybridisation on the mechanical performance of composite laminates: Experimental and numerical analysis**  
*Science Progress* 104 (2), 00368504211023285, 2021 | 2021 | Cited: 28
40. **Effect of twist level on the mechanical performance of S-glass yarns and non-crimp cross-ply composites**  
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41. **Experimental and theoretical study of sandwich composites with Z-pins under quasi-static compression loading**  
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42. **Towards balancing in-plane mechanical properties and impact damage tolerance of composite laminates using quasi-UD woven fabrics with hybrid warp yarns**  
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43. **Intra-laminar toughening mechanisms to enhance impact damage tolerance of 2D woven composite laminates via yarn-level fiber hybridization and fiber architecture**  
*Polymer Composites* 40 (12), 4573-4587, 2019 | 2019 | Cited: 46
44. **Damage Tolerance of Composite Laminate Toughened via Yarn-level Hybridisation and New Fibre Architecture**  
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