

PUBLICATIONS IN REFEREED JOURNALS:

1. **Reza Masoudi Nejad**, Danial Ghahremani Moghadam, Meisam Hadi, Pedram Zamani, Filippo Berto. [An investigation on static and fatigue life evaluation of grooved adhesively bonded T-joints](#) Structures. 2022;35;340-349.
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2. Karim Aliakbari, **Reza Masoudi Nejad**, Tohid Akbarpour Mamaghani, Pooya Pouryamout, Hossein Rahimi Asiabaraki. [Failure analysis of ductile iron crankshaft in compact pickup truck diesel engine](#) Structures. 2022;36;482-492.
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3. Calvin Smith, Blair Hill, Greg Wheatley, **Reza Masoudi Nejad**, Nima Sina. [Fatigue reliability assessment of the new design of rear suspension system of the JCU motorsport car](#) Structures. 2022;36;473-481.
<https://dx.doi.org/10.1016/j.istruc.2021.12.035>
4. **Reza Masoudi Nejad**, Danial Ghahremani Moghadam, Khalil Farhangdoost, Filippo Berto. [Digital shearography approach for stress intensity factors calculation in friction stir welded nugget of AA2024 aluminum alloy](#) Optics & Laser Technology. 2022;149;107854.
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5. **Reza Masoudi Nejad**, Filippo Berto. [Fatigue crack growth of a railway wheel steel and fatigue life prediction under spectrum loading conditions](#) International Journal of Fatigue. 2022;157;106722. <https://doi.org/10.1016/j.ijfatigue.2022.106722>
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8. Aghdas Masoudi, Mohammad Davarpanah Jazi, Majid Mohrekesh, **Reza Masoudi Nejad**. [An investigation of rail failure due to wear using statistical pattern recognition techniques](#) Engineering Failure Analysis. 2022;134:106084.
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9. Karim Aliakbar, **Reza Masoudi Nejad**, Sayed Kian Pourhosseini Toroq, Wojciech Macek, Ricardo Branco. [Assessment of unusual failure in crankshaft of heavy-duty truck engine](#) Engineering Failure Analysis. 2022;134:106085.
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10. **Reza Masoudi Nejad**, Nima Sina, Danial Ghahremani Moghadam, Ricardo Branco, Wojciech Macek, Filippo Berto. [Artificial neural network based fatigue life assessment of friction stir welding AA2024-T351 aluminum alloy and multi-objective optimization of welding parameters](#) International Journal of Fatigue. 2022;160;106840.

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11. Luke Berry, Greg Wheatley, Wenchen Ma, **Reza Masoudi Nejad**, Filippo Berto. [The influence of milling induced residual stress on fatigue life of aluminum alloys](#) Forces in Mechanics. 2022;7;100096. <https://doi.org/10.1016/j.finmec.2022.100096>
12. Wojciech Macek, Łukasz Pejkowski, Ricardo Branco, **Reza Masoudi Nejad**, Krzysztof Żak. [Fatigue fracture surface metrology of thin-walled tubular austenitic steel specimens after asynchronous loadings](#) Engineering Failure Analysis. 2022;138:106354. <https://dx.doi.org/10.1016/j.engfailanal.2022.106354>
13. **Reza Masoudi Nejad**, Nima Sina, Wenchen Ma, Zhiliang Liu, Filippo Berto, Aboozar Gholami. [Optimization of fatigue life of pearlitic Grade 900A steel based on the combination of genetic algorithm and artificial neural network](#) International Journal of Fatigue. 2022;162;106975. <https://doi.org/10.1016/j.ijfatigue.2022.106975>
14. Jordan Franks, Greg Wheatley, Pedram Zamani, **Reza Masoudi Nejad**, Wojciech Macek, Ricardo Branco, Farzaneh Samadi. [Fatigue life improvement using low transformation temperature weld material with measurement of residual stress](#) International Journal of Fatigue. 2022;164;107137. <https://doi.org/10.1016/j.ijfatigue.2022.107137>
15. **Reza Masoudi Nejad**, Karim Aliakbari, Shahab Kamel Abbasnia, Jafar Langari. [Failure analysis of overdrive gear of passenger car gearbox fabricated from powder metallurgy](#) Engineering Failure Analysis. 2022;141:106683. <https://dx.doi.org/10.1016/j.engfailanal.2022.106683>
16. Farzaneh Samadi, Jeetendra Mourya, Greg Wheatley, Mohammed Nizam Khan, **Reza Masoudi Nejad**, Ricardo Branco, Wojciech Macek. [An investigation on residual stress and fatigue life assessment of T-shape welded joints](#) Engineering Failure Analysis. 2022;141:106685. <https://dx.doi.org/10.1016/j.engfailanal.2022.106685>
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18. Sina Abbaszade Hashemi, Khalil Farhangdoost, Wenchen Ma, Danial Ghahremani Moghadam, **Reza Masoudi Nejad**, Filippo Berto. The effects of tensile overload on fatigue crack initiation and propagation for AM60 magnesium alloys. 2021. Submitted to Journal.

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