

# Raffaele Barbagallo

## List of Publications by Year in descending order

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25  
papers

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citations

840776

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940533

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25  
all docs

25  
docs citations

25  
times ranked

202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental issues in tensile Hopkinson bar testing and a model of dynamic hardening. International Journal of Impact Engineering, 2017, 103, 180-194.	5.0	29
2	Locking of the strain rate effect in Hopkinson bar testing of a mild steel. International Journal of Impact Engineering, 2019, 130, 97-112.	5.0	25
3	Analysis and modelling of tensile and torsional behaviour at different strain rates of Ti6Al4V alloy additive manufactured by electron beam melting (EBM). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139916.	5.6	21
4	How sensitivity of metals to strain, strain rate and temperature affects necking onset and hardening in dynamic tests. International Journal of Mechanical Sciences, 2021, 195, 106249.	6.7	20
5	Static and dynamic response of titanium alloy produced by electron beam melting. Procedia Structural Integrity, 2016, 2, 2355-2366.	0.8	19
6	Interaction of strain rate and necking on the stress-strain response of uniaxial tension tests by Hopkinson bar. Procedia Structural Integrity, 2016, 2, 974-985.	0.8	18
7	Interactive re-design of a novel variable geometry bicycle saddle to prevent neurological pathologies. International Journal on Interactive Design and Manufacturing, 2016, 10, 165-172.	2.2	17
8	Redesign and multibody simulation of a motorcycle rear suspension with eccentric mechanism. International Journal on Interactive Design and Manufacturing, 2018, 12, 517-524.	2.2	17
9	A new yield criteria including the effect of lode angle and stress triaxiality. Procedia Structural Integrity, 2016, 2, 3684-3696.	0.8	16
10	Tensile testing of metals: Relationship between macroscopic engineering data and hardening variables at the semi-local scale. International Journal of Mechanical Sciences, 2019, 150, 154-167.	6.7	15
11	Dynamics of a high-performance motorcycle by an advanced multibody/control co-simulation. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 207-221.	0.8	12
12	A Design for Additive Manufacturing approach based on process energy efficiency: Electron beam melted components. Journal of Cleaner Production, 2021, 290, 125185.	9.3	12
13	Use of recycled aggregates in road sub-base construction and concrete manufacturing. Annals of Geophysics, 2018, 61, .	1.0	9
14	Tensile Test of a HSLA Steel at High Strain Rates with Two Different SHTB Facilities. Procedia Engineering, 2017, 197, 89-98.	1.2	7
15	An integrated approach to customize the packaging of heritage artefacts. Lecture Notes in Mechanical Engineering, 2017, , 167-175.	0.4	6
16	Extended Stress-Strain Characterization of Automotive Steels at Dynamic Rates. Metals, 2022, 12, 960.	2.3	5
17	Coupling of temperature and strain in thermal softening of a stainless steel at low and high strain rates. Procedia Structural Integrity, 2019, 24, 259-266.	0.8	4
18	Fatigue limit assessment by energetic analyses in static and cyclic tensile tests. Procedia Structural Integrity, 2019, 24, 706-711.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Study of the Electron Beam Melting Process Parametersâ€™ Influence on the Tensile Behavior of 3D Printed Ti6Al4V ELI Alloy in Static and Dynamic Conditions. <i>Materials</i> , 2022, 15, 4217.	2.9	3
20	An integrated approach to design an innovative motorcycle rear suspension with eccentric mechanism. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 609-619.	0.4	2
21	Thermographic-DIC approach in fatigue behaviour analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012050.	0.6	1
22	Effect of process parameters on the mechanical properties of a Titanium alloy fabricated by Electron Beam Melting (EBM). <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1214, 012001.	0.6	1
23	Variability of the effective strain rate in SHTB tests and related effects on the dynamic stress amplification. <i>EPJ Web of Conferences</i> , 2018, 183, 02024.	0.3	0
24	Mechanical response of an high-strength automotive steel at different strain rates and evolution of damage-related parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1038, 012021.	0.6	0
25	Modelling the influence of strain and strain rate on the thermal softening during dynamic loading of ductile metals. <i>EPJ Web of Conferences</i> , 2021, 250, 02003.	0.3	0