

# Vasilios Spitas

## List of Publications by Year in descending order

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19  
papers

157  
citations

1478505

6  
h-index

1125743

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Aspects of Additive Manufacturing at Microscale: A Review. <i>Micromachines</i> , 2022, 13, 775.	2.9	11
2	UPCYCLING OBSOLETE MECHANICAL EQUIPMENT INTO INNOVATIVE LABORATORY TEST RIGS: A LOW-COST SOLUTION OR A SUSTAINABLE DESIGN APPROACH?. <i>Proceedings of the Design Society</i> , 2021, 1, 3309-3318.	0.8	3
3	A novel experimental setup for the determination of the thermal expansion coefficient of concrete at cryogenic temperatures. <i>Construction and Building Materials</i> , 2021, 309, 125134.	7.2	4
4	Effect of datum system and datum hierarchy on the design of functional components produced by additive manufacturing: a systematic review and analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 817-828.	3.0	6
5	Computational implementation of part stiffness on tolerance specification based on the functional performance of assemblies. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 397-410.	3.0	0
6	Dynamics-Based Loads Monitoring Algorithm for Onboard Commercial Aircraft Usage. <i>Journal of Aircraft</i> , 2020, 57, 1229-1233.	2.4	1
7	Nondimensional Characterization of the Operational Envelope of a Wet Friction Clutch. <i>Computation</i> , 2020, 8, 21.	2.0	4
8	Optimal Design in Roller Pump System Applications for Linear Infusion. <i>Computation</i> , 2020, 8, 35.	2.0	7
9	A comparative study on the effect of disks geometrical features on the drag torque of a wet friction clutch. <i>MATEC Web of Conferences</i> , 2020, 317, 04001.	0.2	3
10	Non-linear modeling of gear drive dynamics incorporating intermittent tooth contact analysis and tooth eigenvibrations. <i>Mechanism and Machine Theory</i> , 2019, 136, 307-333.	4.5	35
11	Stress analysis of self-aligning automotive gearing. <i>International Journal of Powertrains</i> , 2019, 8, 93.	0.3	2
12	Analysis and design exploration of single stage compound stepped planetary gear transmissions. <i>International Journal of Powertrains</i> , 2018, 7, 1.	0.3	0
13	Modeling of the Elastic Damping Response of a Carbon Nanotube-Polymer Nanocomposite in the Stress-Strain Domain Using an Elastic Energy Release Approach Based on Stick-Slip. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 791-800.	2.6	22
14	Derivation of the Equation of Caustics for the Experimental Assessment of Distributed Contact Loads with Friction in Two Dimensions. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2013, , 337-350.	2.2	1
15	Towards Optimum Involute Gear Design by Combining Addendum and Thickness Modifications. <i>Mechanisms and Machine Science</i> , 2013, , 173-181.	0.5	1
16	Design of Loboid Gear Pairs Using Involute Discretization. <i>Mechanisms and Machine Science</i> , 2013, , 417-425.	0.5	0
17	Numerical and experimental analysis of a triangular auxetic core made of CFR-PEEK using the Directionally Reinforced Integrated Single-yarn (DIRIS) architecture. <i>Composites Science and Technology</i> , 2010, 70, 1064-1071.	7.8	26
18	Fast modeling of conjugate gear tooth profiles using discrete presentation by involute segments. <i>Mechanism and Machine Theory</i> , 2007, 42, 751-762.	4.5	29

#	ARTICLE	IF	CITATIONS
19	Shear Testing of Al and Al-Al <sub>4</sub> C <sub>3</sub> Materials at Elevated Temperatures. High Temperature Materials and Processes, 2005, 24, 145-152.	1.4	2