

Vasilios Spitas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9095982/publications.pdf>

Version: 2024-02-01

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	Non-linear modeling of gear drive dynamics incorporating intermittent tooth contact analysis and tooth eigenvibrations. Mechanism and Machine Theory, 2019, 136, 307-333.	4.5	35
2	Fast modeling of conjugate gear tooth profiles using discrete presentation by involute segments. Mechanism and Machine Theory, 2007, 42, 751-762.	4.5	29
3	Numerical and experimental analysis of a triangular auxetic core made of CFR-PEEK using the Directionally Reinforced Integrated Single-yarn (DIRIS) architecture. Composites Science and Technology, 2010, 70, 1064-1071.	7.8	26
4	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. Mechanics of Advanced Materials and Structures, 2013, 20, 791-800.	2.6	22
5	Design Aspects of Additive Manufacturing at Microscale: A Review. Micromachines, 2022, 13, 775.	2.9	11
6	Optimal Design in Roller Pump System Applications for Linear Infusion. Computation, 2020, 8, 35.	2.0	7
7	Effect of datum system and datum hierarchy on the design of functional components produced by additive manufacturing: a systematic review and analysis. International Journal of Advanced Manufacturing Technology, 2020, 111, 817-828.	3.0	6
8	Nondimensional Characterization of the Operational Envelope of a Wet Friction Clutch. Computation, 2020, 8, 21.	2.0	4
9	A novel experimental setup for the determination of the thermal expansion coefficient of concrete at cryogenic temperatures. Construction and Building Materials, 2021, 309, 125134.	7.2	4
10	UPCYCLING OBSOLETE MECHANICAL EQUIPMENT INTO INNOVATIVE LABORATORY TEST RIGS: A LOW-COST SOLUTION OR A SUSTAINABLE DESIGN APPROACH?. Proceedings of the Design Society, 2021, 1, 3309-3318.	0.8	3
11	A comparative study on the effect of disks geometrical features on the drag torque of a wet friction clutch. MATEC Web of Conferences, 2020, 317, 04001.	0.2	3
12	Shear Testing of Al and Al-Al4C3 Materials at Elevated Temperatures. High Temperature Materials and Processes, 2005, 24, 145-152.	1.4	2
13	Stress analysis of self-aligning automotive gearing. International Journal of Powertrains, 2019, 8, 93.	0.3	2
14	Dynamics-Based Loads Monitoring Algorithm for Onboard Commercial Aircraft Usage. Journal of Aircraft, 2020, 57, 1229-1233.	2.4	1
15	Derivation of the Equation of Caustics for the Experimental Assessment of Distributed Contact Loads with Friction in Two Dimensions. Lecture Notes in Applied and Computational Mechanics, 2013, , 337-350.	2.2	1
16	Towards Optimum Involute Gear Design by Combining Addendum and Thickness Modifications. Mechanisms and Machine Science, 2013, , 173-181.	0.5	1
17	Analysis and design exploration of single stage compound stepped planetary gear transmissions. International Journal of Powertrains, 2018, 7, 1.	0.3	0
18	Computational implementation of part stiffness on tolerance specification based on the functional performance of assemblies. International Journal of Advanced Manufacturing Technology, 2020, 111, 397-410.	3.0	0

#	ARTICLE	IF	CITATIONS
19	Design of Loboid Gear Pairs Using Involute Discretization. Mechanisms and Machine Science, 2013, , 417-425.	0.5	0