

# Lassaad Walha

## List of Publications by Year in descending order

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39  
papers

498  
citations

840776

11  
h-index

713466

21  
g-index

42  
all docs

42  
docs citations

42  
times ranked

290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamics of a two-stage gear system with mesh stiffness fluctuation, bearing flexibility and backlash. <i>Mechanism and Machine Theory</i> , 2009, 44, 1058-1069.	4.5	160
2	Dynamic behavior of a two-stage gear train used in a fixed-speed wind turbine. <i>Mechanism and Machine Theory</i> , 2011, 46, 1888-1900.	4.5	45
3	Dynamic vibrations in wind energy systems: Application to vertical axis wind turbine. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 396-414.	8.0	43
4	Effect of manufacturing and assembly defects on two-stage gear systems vibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 29, 1008-1018.	3.0	28
5	Effects of eccentricity defect on the nonlinear dynamic behavior of the mechanism clutch-helical two stage gear. <i>Mechanism and Machine Theory</i> , 2011, 46, 986-997.	4.5	26
6	An efficient optimization based on the robust hybrid method for the coupled acoustic-structural system. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1816-1826.	2.6	23
7	An efficient reliability-based design optimization study for PCM-based heat-sink used for cooling electronic devices. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1661-1673.	2.6	21
8	Dynamic modelling of differential bevel gear system in the presence of a defect. <i>Mechanism and Machine Theory</i> , 2019, 139, 81-108.	4.5	20
9	Dynamic behaviour of a wind turbine gear system with uncertainties. <i>Comptes Rendus - Mecanique</i> , 2016, 344, 375-387.	2.1	18
10	Study of the filament wound glass/polyester composite damage behavior by acoustic emission data unsupervised learning. <i>Applied Acoustics</i> , 2017, 127, 175-183.	3.3	16
11	An approach for the reliability-based design optimization of shape memory alloy structure. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 155-171.	4.7	15
12	Effect of manufacturing defects on the dynamic behaviour for an helical two-stage gear system. <i>Mecanique Et Industries</i> , 2009, 10, 365-376.	0.2	11
13	Damping models identification of a spur gear pair. <i>Mechanism and Machine Theory</i> , 2018, 122, 371-388.	4.5	11
14	Surrogate models for uncertainty analysis of micro-actuator. <i>Microsystem Technologies</i> , 2020, 26, 2589-2600.	2.0	10
15	Numerical modeling of uncertainty in acoustic propagation via generalized polynomial chaos. <i>Journal of Theoretical and Applied Mechanics</i> , 2019, 57, 3-15.	0.5	8
16	Influence of uncertainty in aerodynamic performance on the dynamic response of a two stage gear system. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 601.	0.5	7
17	Non-probabilistic interval process method for analyzing two-stage straight bevel gear system with uncertain time-varying parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 3162-3178.	2.1	6
18	Dynamic response of a spur gear system with uncertain parameters. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 1039.	0.5	6

#	ARTICLE	IF	CITATIONS
19	A robust method for the reliability-based design optimization of shape memory alloy actuator. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 1563-1581.	4.7	4
20	Vibration Analysis of a Nonlinear Drivetrain System in the Presence of Acyclism. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 541-550.	0.4	2
21	Modal Analysis of the Clutch Single Spur Gear Stage System with Eccentricity Defect. <i>Applied Condition Monitoring</i> , 2019, , 87-95.	0.4	2
22	Uncertainty of shape memory alloy micro-actuator using generalized polynomial chaos method. <i>Microsystem Technologies</i> , 2019, 25, 1505-1517.	2.0	2
23	Analysis of Strongly Nonlinear Systems by Using HBM-AFT Method and Its Comparison with the Five-Order Runge-Kutta Method: Application to Duffing Oscillator and Disc Brake Model. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	1.6	2
24	Rayleigh Damping Coefficients Identification Using the Wavelet Transform on Two Stage Gear System. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 204-213.	0.4	2
25	Coupling PCM-based Heat Sinks finite elements model for mechatronic devices with Design Optimization procedure. , 2020, , .		2
26	Porous material effect on gearbox vibration and acoustic behavior. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 1381.	0.5	2
27	The Effect of the Brake Location and Gear Defects on the Dynamic Behavior of a Wind Turbine. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5421-5433.	3.0	1
28	Vibration analysis of nonlinear powertrain model with randomly cracked teeth under acyclism operation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	1
29	Effects of the interval geometric deviation and crowning parameters on the automotive differential dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 0, , 146441932110394.	0.8	1
30	A Polynomial Chaos Method for the Analysis of Uncertain Spur Gear System. <i>Lecture Notes in Mechanical Engineering</i> , 2014, , 89-97.	0.4	1
31	Effects of aerodynamic excitations on the dynamic behavior of helical gear system. <i>Multidiscipline Modeling in Materials and Structures</i> , 2012, 8, 178-196.	1.3	0
32	Experimental Investigation of the Damage Progression in the Filament-Wound Composite by the Acoustic Emission Technique. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 1235-1243.	0.4	0
33	Numerical modeling of shape memory alloy problem in presence of perturbation: application to Cu-Al-Zn-Mn specimen. <i>International Journal for Simulation and Multidisciplinary Design Optimization</i> , 2019, 10, A7.	1.1	0
34	Reliability Based Design Optimization of Shape Memory Alloy. <i>Applied Condition Monitoring</i> , 2019, , 247-256.	0.4	0
35	Effects of mass imbalance and eccentricity defects on the automotive differential dynamics. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	0
36	Generalised Polynomial Chaos for the Dynamic Analysis of Spur Gear System Taken into Account Uncertainty. <i>Lecture Notes in Mechanical Engineering</i> , 2014, , 111-118.	0.4	0

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37	Parametric Study of a Minimal Model of Wind Turbine Drivetrain System. Lecture Notes in Mechanical Engineering, 2020, , 125-132.	0.4	0
38	Sensitivity Analysis of Porous Material Using the Mixed Formulation. Lecture Notes in Mechanical Engineering, 2020, , 105-112.	0.4	0
39	Estimation of the damping model of a spur gear pair system including a time-varying loading. Comptes Rendus - Mecanique, 2022, 350, 255-267.	0.7	0