A Kahraman

List of Publications by Year
in descending order

56 papers	5,359 citations	109321 35 h-index	161849 54 g-index
57 all docs	57 docs citations	57 times ranked	1410 citing authors

#	Article	IF	Citations
1	A Methodology to Measure Power Losses of Rolling Element Bearings under Combined Radial and Axial Loading Conditions. Tribology Transactions, 2022, 65, 137-152.	2.0	5
2	An Experimental and Theoretical Study of Quasi-Static Behavior of Double-Helical Gear Sets. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	9
3	Static and Dynamic Transmission Error Measurements of Helical Gear Pairs With Various Tooth Modifications. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	50
4	An Experimental Investigation of Churning Power Losses of a Gearbox. Journal of Tribology, 2018, 140, .	1.9	15
5	A Three-Dimensional Load Sharing Model of Planetary Gear Sets Having Manufacturing Errors. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	22
6	Impact of Tooth Indexing Errors on Dynamic Factors of Spur Gears: Experiments and Model Simulations. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	21
7	Development and Validation of an Automotive Axle Power Loss Model. Tribology Transactions, 2016, 59, 707-719.	2.0	14
8	Mechanical power losses of full-complement needle bearings of planetary gear sets: Model and experiments. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 839-855.	2.1	6
9	Influence of Design Parameters on Mechanical Power Losses of Planetary Gear Sets. , 2015, , .		2
10	Effects of Tooth Indexing Errors on Load Distribution and Tooth Load Sharing of Splines Under Combined Loading Conditions. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	16
11	An experimental and theoretical study of the dynamic behavior of double-helical gear sets. Journal of Sound and Vibration, 2015, 350, 11-29.	3.9	65
12	Influence of indexing errors on dynamic response of spur gear pairs. Mechanical Systems and Signal Processing, 2015, 60-61, 391-405.	8.0	70
13	An experimental investigation of spin power losses of a planetary gear set. Mechanism and Machine Theory, 2015, 86, 48-61.	4.5	30
14	Impact of indexing errors on spur gear dynamics. , 2014, , 751-762.		1
15	Impact of Tooth Spacing Errors on the Root Stresses of Spur Gear Pairs. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	2.9	20
16	Mechanical power losses of full-complement needle bearings of planetary gear sets. , 2014, , 251-262.		0
17	An Investigation of the Impacts of Contact Parameters on Wear Coefficient. Journal of Tribology, 2014, 136, .	1.9	25
18	An Automated Design Search for Single and Double-Planet Planetary Gear Sets. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	2.9	15

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19	Experiments on the relationship between the dynamic transmission error and the dynamic stress factor of spur gear pairs. Mechanism and Machine Theory, 2013, 70, 116-128.	4.5	103
20	A tribo-dynamic model of a spur gear pair. Journal of Sound and Vibration, 2013, 332, 4963-4978.	3.9	136
21	Estimation of Bending Fatigue Life of Hypoid Gears Using a Multiaxial Fatigue Criterion. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	15
22	Influence of dynamic behaviour on elastohydrodynamic lubrication of spur gears. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2011, 225, 740-753.	1.8	42
23	A spur gear mesh interface damping model based on elastohydrodynamic contact behaviour. International Journal of Powertrains, 2011, 1, 4.	0.3	63
24	A Methodology to Predict Surface Wear of Planetary Gears Under Dynamic Conditions[#]. Mechanics Based Design of Structures and Machines, 2010, 38, 493-515.	4.7	49
25	Oil Churning Power Losses of a Gear Pair: Experiments and Model Validation. Journal of Tribology, 2009, 131, .	1.9	79
26	A surface wear model for hypoid gear pairs. Wear, 2009, 267, 1595-1604.	3.1	53
27	A theoretical and experimental investigation of modulation sidebands of planetary gear sets. Journal of Sound and Vibration, 2009, 323, 677-696.	3.9	300
28	Dynamic Modelling of Planetary Gears of Automatic Transmissions. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2008, 222, 229-242.	0.8	34
29	An Experimental Study of the Influence of Manufacturing Errors on the Planetary Gear Stresses and Planet Load Sharing. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	142
30	An Experimental Investigation of Spur Gear Efficiency. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	142
31	An Investigation of Steady-State Dynamic Response of a Sphere-Plane Contact Interface With Contact Loss. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 249-255.	2.2	22
32	A non-linear dynamic model for planetary gear sets. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2007, 221, 567-576.	0.8	42
33	Prediction of friction-related power losses of hypoid gear pairs. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2007, 221, 387-400.	0.8	32
34	A Study of the Relationship Between the Dynamic Factors and the Dynamic Transmission Error of Spur Gear Pairs. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 75-84.	2.9	139
35	Non-linear dynamic analysis of a multi-mesh gear train using multi-term harmonic balance method: sub-harmonic motions. Journal of Sound and Vibration, 2005, 279, 417-451.	3.9	137
36	Non-linear dynamic analysis of a multi-mesh gear train using multi-term harmonic balance method: period-one motions. Journal of Sound and Vibration, 2005, 284, 151-172.	3.9	96

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37	Period-one motions of a mechanical oscillator with periodically time-varying, piecewise-nonlinear stiffness. Journal of Sound and Vibration, 2005, 284, 893-914.	3.9	39
38	A Surface Wear Prediction Methodology for Parallel-Axis Gear Pairs. Journal of Tribology, 2004, 126, 597-605.	1.9	105
39	Dynamic Analysis of a Multi-Shaft Helical Gear Transmission by Finite Elements: Model and Experiment. Journal of Vibration and Acoustics, Transactions of the ASME, 2004, 126, 398-406.	1.6	181
40	Dynamic tooth loads of planetary gear sets having tooth profile wear. Mechanism and Machine Theory, 2004, 39, 695-715.	4.5	137
41	A Kinematics and Power Flow Analysis Methodology for Automatic Transmission Planetary Gear Trains. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 1071-1081.	2.9	85
42	A deformable body dynamic analysis of planetary gears with thin rims. Journal of Sound and Vibration, 2003, 262, 752-768.	3.9	128
43	Effect of Involute Contact Ratio on Spur Gear Dynamics. Journal of Mechanical Design, Transactions of the ASME, 1999, 121, 112-118.	2.9	157
44	Effect of Involute Tip Relief on Dynamic Response of Spur Gear Pairs. Journal of Mechanical Design, Transactions of the ASME, 1999, 121, 313-315.	2.9	117
45	Experiments on Nonlinear Dynamic Behavior of an Oscillator With Clearance and Periodically Time-Varying Parameters. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 217-226.	2.2	243
46	INTERACTIONS BETWEEN COMMENSURATE PARAMETRIC AND FORCING EXCITATIONS IN A SYSTEM WITH CLEARANCE. Journal of Sound and Vibration, 1996, 194, 317-336.	3.9	113
47	Steady state forced response of a mechanical oscillator with combined parametric excitation and clearance type non-linearity. Journal of Sound and Vibration, 1995, 185, 743-765.	3.9	238
48	Natural Modes of Planetary Gear Trains. Journal of Sound and Vibration, 1994, 173, 125-130.	3.9	210
49	Planetary Gear Train Dynamics. Journal of Mechanical Design, Transactions of the ASME, 1994, 116, 713-720.	2.9	270
50	Effect of Axial Vibrations on the Dynamics of a Helical Gear Pair. Journal of Vibration and Acoustics, Transactions of the ASME, 1993, 115, 33-39.	1.6	90
51	Dynamic Analysis of Geared Rotors by Finite Elements. Journal of Mechanical Design, Transactions of the ASME, 1992, 114, 507-514.	2.9	125
52	Dynamics of an oscillator with both clearance and continuous non-linearities. Journal of Sound and Vibration, 1992, 153, 180-185.	3.9	15
53	Error associated with a reduced order linear model of a spur gear pair. Journal of Sound and Vibration, 1991, 149, 495-498.	3.9	10
54	Non-linear dynamics of a geared rotor-bearing system with multiple clearances. Journal of Sound and Vibration, 1991, 144, 469-506.	3.9	207

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55	Interactions between time-varying mesh stiffness and clearance non-linearities in a geared system. Journal of Sound and Vibration, 1991, 146, 135-156.	3.9	330
56	Non-linear dynamics of a spur gear pair. Journal of Sound and Vibration, 1990, 142, 49-75.	3.9	526