Ian Howard

List of Publications by Year
in descending order

37 papers	1,544 citations	361045 20 h-index	433756 31 g-index
37 all docs	37 docs citations	37 times ranked	1104 citing authors

#	ARTICLE	IF	CITATIONS
1	THE DYNAMIC MODELLING OF A SPUR GEAR IN MESH INCLUDING FRICTION AND A CRACK. Mechanical Systems and Signal Processing, 2001, 15, 831-853.	4.4	205
2	Advancements of wave energy converters based on power take off (PTO) systems: A review. Ocean Engineering, 2020, 204, 107248.	1.9	171
3	Comparison of localised spalling and crack damage from dynamic modelling of spur gear vibrations. Mechanical Systems and Signal Processing, 2006, 20, 332-349.	4.4	148
4	Reliability improvement of wind turbine power generation using model-based fault detection and fault tolerant control: A review. Renewable Energy, 2019, 135, 877-896.	4.3	124
5	An integrated approach for fuzzy failure modes and effects analysis using fuzzy AHP and fuzzy MAIRCA. Engineering Failure Analysis, 2020, 108, 104195.	1.8	114
6	Finite Element Analysis of High Contact Ratio Spur Gears in Mesh. Journal of Tribology, 2005, 127, 469-483.	1.0	89
7	Calculation of the Combined Torsional Mesh Stiffness of Spur Gears with Two- and Three-Dimensional Parametrical FE Models. Strojniski Vestnik/Journal of Mechanical Engineering, 2011, 57, 810-818.	0.6	87
8	Torsional vibration signal analysis as a diagnostic tool for planetary gear fault detection. Mechanical Systems and Signal Processing, 2018, 100, 706-728.	4.4	65
9	A novel hybrid multi-criteria group decision making approach for failure mode and effect analysis: An essential requirement for sustainable manufacturing. Sustainable Production and Consumption, 2020, 21, 14-32.	5.7	56
10	Adaptive PID Control of Wind Turbines for Power Regulation With Unknown Control Direction and Actuator Faults. IEEE Access, 2018, 6, 37464-37479.	2.6	48
11	Neural adaptive tracking control for an uncertain robot manipulator with time-varying joint space constraints. Mechanical Systems and Signal Processing, 2018, 112, 44-60.	4.4	47
12	Backstepping Nussbaum gain dynamic surface control for a class of input and state constrained systems with actuator faults. Information Sciences, 2019, 482, 27-46.	4.0	36
13	Decoupling Adaptive Sliding Mode Observer Design for Wind Turbines Subject to Simultaneous Faults in Sensors and Actuators. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 837-847.	8.5	35
14	The spur planetary gear torsional stiffness and its crack sensitivity under quasi-static conditions. Engineering Failure Analysis, 2016, 63, 106-120.	1.8	31
15	The Dynamic Modeling of Multiple Pairs of Spur Gears in Mesh, Including Friction and Geometrical Errors. International Journal of Rotating Machinery, 2003, 9, 437-442.	0.8	30
16	Neural network adaptive control design for robot manipulators under velocity constraints. Journal of the Franklin Institute, 2018, 355, 693-713.	1.9	28
17	An integrated interval type-2 fuzzy sets and multiplicative half quadratic programming-based MCDM framework for calculating aggregated risk ranking results of failure modes in FMECA. Chemical Engineering Research and Design, 2021, 150, 194-222.	2.7	27
18	Dynamic modelling of flexibly supported gears using iterative convergence of tooth mesh stiffness. Mechanical Systems and Signal Processing, 2016, 80, 460-481.	4.4	26

#	Article	IF	Citations
19	Neural impedance adaption for assistive human–robot interaction. Neurocomputing, 2018, 290, 50-59.	3.5	24
20	The diagnostic analysis of the planet bearing faults using the torsional vibration signal. Mechanical Systems and Signal Processing, 2019, 134, 106304.	4.4	24
21	Power maximization of variable-speed variable-pitch wind turbines using passive adaptive neural fault tolerant control. Frontiers of Mechanical Engineering, 2017, 12, 377-388.	2.5	22
22	Is wave energy untapped potential?. International Journal of Mechanical Sciences, 2021, 205, 106544.	3.6	22
23	Bayesian Sensor Fault Detection in a Markov Jump System. Asian Journal of Control, 2017, 19, 1465-1481.	1.9	18
24	Optimum efficiency control of a wind turbine with unknown desired trajectory and actuator faults. Journal of Renewable and Sustainable Energy, 2017, 9, 063305.	0.8	12
25	Dynamic modelling of the gear system under non-stationary conditions using the iterative convergence of the tooth mesh stiffness. Engineering Failure Analysis, 2022, 131, 105908.	1.8	11
26	Fault-Tolerant Neuro Adaptive Constrained Control of Wind Turbines for Power Regulation with Uncertain Wind Speed Variation. Energies, 2019, 12, 4712.	1.6	9
27	Bayesian Fault Probability Estimation: Application in Wind Turbine Drivetrain Sensor Fault Detection. Asian Journal of Control, 2020, 22, 624-647.	1.9	8
28	Vibration response from the planetary gear with flexible ring gear. International Journal of Powertrains, 2019, 8, 3.	0.1	7
29	The diagnostic analysis of the fault coupling effects in planet bearing. Engineering Failure Analysis, 2020, 108, 104266.	1.8	6
30	Constrained control of wind turbines for power regulation in full load operation. , 2017, , .		4
31	A neuro-adaptive maximum power tracking control of variable speed wind turbines with actuator faults. , 2017, , .		4
32	Wind Turbine Pitch Actuator Regulation for Efficient and Reliable Energy Conversion: A Fault-Tolerant Constrained Control Solution. Actuators, 2022, 11, 102.	1.2	2
33	Ring-Planet Mesh Stiffness Study With Different Boundary Conditions and Crack Locations. , 2015, , .		1
34	Sensor fault detection and isolation: a game theoretic approach. International Journal of Systems Science, 2018, , 1-21.	3.7	1
35	Optimal robot–environment interaction using inverse differential Riccati equation. Asian Journal of Control, 2020, 22, 1401-1410.	1.9	1
36	The Dynamic Modelling of Multiple Pairs of Spur Gears in Mesh Including Friction. , 2001, , 841-848.		1

#	Article	IF	Citations
37	The detection of multiple faults in a Bayesian setting using dynamic programming approaches. Signal Processing, 2020, 175, 107618.	2.1	0