Mohammad Reza Karafi

List of Publications by Year
in descending order

20	241	933447 10	996975 15
papers	citations	h-index	g-index

21	21	21	229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a novel pneumatic positioning actuator equipped with new continuous air impulse generators. Mechanics Based Design of Structures and Machines, 2023, 51, 6410-6423.	4.7	1
2	An analytical approach to design horns and boosters of ultrasonic welding machines. SN Applied Sciences, 2022, 4, .	2.9	2
3	An investigation on the material removal mechanism, surface porosity, and surface integrity in ultrasonic vibration assisted turning of porous stainless steel 316L. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 1782-1792.	2.4	3
4	A continuum electro-mechanical model of ultrasonic Langevin transducers to study its frequency response. Applied Mathematical Modelling, 2021, 92, 44-62.	4.2	11
5	An electromagnetic arrayed pump to create arbitrary velocity profiles in fluid. SN Applied Sciences, 2021, 3, .	2.9	2
6	An introduction to a bulk magnetostrictive bending actuator using a permendur rod. SN Applied Sciences, 2020, 2, 1.	2.9	4
7	Design and fabrication of a novel vibration-assisted drilling tool using a torsional magnetostrictive transducer. International Journal of Advanced Manufacturing Technology, 2019, 102, 2095-2106.	3.0	5
8	Evaluation of mechanical and electric power losses in a typical piezoelectric ultrasonic transducer. Sensors and Actuators A: Physical, 2019, 288, 156-164.	4.1	23
9	Introduction of a hybrid sensor to measure the torque and axial force using a magnetostrictive hollow rod. Sensors and Actuators A: Physical, 2018, 276, 91-102.	4.1	11
10	Development of a hybrid DEP-SAW device for trapping/sensing target cells. Applied Acoustics, 2018, 141, 355-361.	3.3	6
11	Reduction of magneto rheological dampers stiffness by incorporating of an eddy current damper. Journal of Sound and Vibration, 2017, 396, 51-68.	3.9	27
12	An approach to design and fabrication of resonant giant magnetostrictive transducer. Smart Structures and Systems, 2016, 17, 313-325.	1.9	20
13	Study on classical and excess eddy currents losses of Terfenol-D. Journal of Magnetism and Magnetic Materials, 2015, 388, 150-159.	2.3	27
14	A combined Preisachâ€“Hyperbolic Tangent model for magnetic hysteresis of Terfenol-D. Journal of Magnetism and Magnetic Materials, 2015, 396, 38-47.	2.3	19
15	Study on the Magnetic Hysteresis of Terfenol-D Using New Hybrid Model. Key Engineering Materials, 2014, 605, 519-522.	0.4	3
16	A novel magnetostrictive torsional resonant transducer. Sensors and Actuators A: Physical, 2013, 195, 71-78.	4.1	24
17	A new hybrid longitudinalâ€“torsional magnetostrictive ultrasonic transducer. Smart Materials and Structures, 2013, 22, 065013.	3.5	20
18	Development of an inductive encoder for simultaneous measurement of two-dimensional displacement. International Journal of Advanced Manufacturing Technology, 2011, 53, 681-688.	3.0	10

#	Article	IF	Citations
19	Study on automatic control of arc gap in robotic TIG welding. International Journal of Advanced Manufacturing Technology, 2010, 50, 953-960.	3.0	11
20	Introduction of roller interface ultrasonic motor (RIUSM). Sensors and Actuators A: Physical, 2010, 163, 304-310.	4.1	12