

# Asan G A Muthalif

## List of Publications by Year in descending order

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84  
papers

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citations

758635

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h-index

642321

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89  
all docs

89  
docs citations

89  
times ranked

650  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Suitability of Vibration Acceptance Criteria of Process Pipework. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-9.	1.0	0
2	Development and Implementation of Energy-Efficient Magnetorheological Fluid Bypass Damper for Prosthetics Limbs Using a Fuzzy-Logic Controller. <i>IEEE Access</i> , 2022, 10, 18978-18987.	2.6	10
3	A hybrid piezoelectric-electromagnetic energy harvester from vortex-induced vibrations in fluid-flow; the influence of boundary condition in tuning the harvester. <i>Energy Conversion and Management</i> , 2022, 256, 115371.	4.4	25
4	Magnetorheological Elastomer based torsional vibration isolator for application in a prototype drilling shaft. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 676-700.	1.3	9
5	Development of a Performance-Enhanced Hybrid Magnetorheological Elastomer-Fluid for Semi-Active Vibration Isolation: Static and Dynamic Experimental Characterization. <i>Materials</i> , 2022, 15, 3238.	1.3	5
6	Optimization of Piezoelectric Sensor-Actuator for Plate Vibration Control Using Evolutionary Computation: Modeling, Simulation and Experimentation. <i>IEEE Access</i> , 2021, 9, 100725-100734.	2.6	6
7	Parametric Estimation From Empirical Data Using Particle Swarm Optimization Method for Different Magnetorheological Damper Models. <i>IEEE Access</i> , 2021, 9, 72602-72613.	2.6	13
8	Optimal piezoelectric shunt dampers for non-deterministic substructure vibration control: estimation and parametric investigation. <i>Scientific Reports</i> , 2021, 11, 4642.	1.6	6
9	Broadband vibration energy harvesting from a non-deterministic system: Performance of different piezoelectric patch shapes. <i>Materials Research Express</i> , 2021, 8, 025702.	0.8	3
10	A hybrid piezoelectric-electromagnetic nonlinear vibration energy harvester excited by fluid flow. <i>Comptes Rendus - Mecanique</i> , 2021, 349, 65-81.	0.3	6
11	An enhanced hybrid piezoelectric-electromagnetic energy harvester using dual-mass system for vortex-induced vibrations. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2848-2861.	1.5	13
12	Geometrical Investigation of Piezoelectric Patches for Broadband Energy Harvesting in Non-Deterministic Composite Plates. <i>Materials</i> , 2021, 14, 7370.	1.3	1
13	Magnetorheological Elastomer Based Flexible Metamaterials Coupler for Broadband Longitudinal Vibration Isolation: Modeling and Experimental Verification. <i>IEEE Access</i> , 2021, 9, 165451-165461.	2.6	6
14	Estimation and measurement of effective line mobility on a non-deterministic thin plate excited by a piezoelectric patch. <i>Journal of Vibroengineering</i> , 2020, 22, 98-110.	0.5	5
15	3D numerical modelling and analysis of a magnetorheological elastomer (MRE). <i>Journal of Vibroengineering</i> , 2020, 22, 1251-1265.	0.5	9
16	Hysteresis behaviour of different magnetorheological elastomer models: modelling and simulation. <i>Vibroengineering PROCEDIA</i> , 2020, 31, 7-14.	0.3	5
17	PAVEMENT CONDITION ANALYSIS VIA VEHICLE MOUNTED ACCELEROMETER DATA. <i>IIUM Engineering Journal</i> , 2020, 21, 73-84.	0.5	5
18	Islamisation of Engineering Education - A Case at IIUM. <i>Universal Journal of Educational Research</i> , 2020, 8, 355-361.	0.1	0

#	ARTICLE	IF	CITATIONS
19	Prototype of single degree of freedom optical resolver. IOP Conference Series: Materials Science and Engineering, 2019, 488, 012004.	0.3	0
20	Active Vibration Isolation System (AVIS) using a Voice Coil Actuator to improve Free Space Optics Communication. , 2019, , .		1
21	Intelligent glove for suppression of resting tremor in Parkinsonâ€™s disease. Vibroengineering PROCEDIA, 2019, 29, 176-181.	0.3	7
22	Control of transtibial prosthetic limb with magnetorheological fluid damper by using a fuzzy PID controller. Journal of Low Frequency Noise Vibration and Active Control, 2018, 37, 1067-1078.	1.3	16
23	Experimental Investigation of Static Properties of Magnetorheological Elastomer. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2018, 42, 185-197.	0.8	14
24	Optical characterization of tip bended Vertically Aligned Carbon Nanotubes array. Chemical Physics Letters, 2018, 711, 37-41.	1.2	4
25	Towards achieving nanofinish on silicon (Si) wafer by $\hat{1}$ / <sub>4</sub> -wire electro-discharge machining. International Journal of Advanced Manufacturing Technology, 2018, 99, 3005-3015.	1.5	5
26	Optical anisotropy in micromechanically rolled carbon nanotube forest. Electronic Materials Letters, 2017, 13, 442-448.	1.0	2
27	An Experimental Investigation on the Effect of Nanopowder for Micro-Wire Electro Discharge Machining of Gold Coated Silicon. Procedia Engineering, 2017, 184, 171-177.	1.2	7
28	Robust vibration control of flexible panel: modeling and simulation. World Journal of Engineering, 2017, 14, 433-442.	1.0	0
29	Empirical modeling of micromechanical bending process of vertically aligned carbon nanotube forest using response surface methodology. Cogent Engineering, 2017, 4, 1347078.	1.1	0
30	Comparative study of conventional and magnetically coupled piezoelectric energy harvester to optimize output voltage and bandwidth. Microsystem Technologies, 2017, 23, 2663-2674.	1.2	10
31	Mechatronics technology in predictive maintenance method. IOP Conference Series: Materials Science and Engineering, 2017, 260, 012006.	0.3	1
32	DEVELOPMENT OF LOW POWER WIRELESS POWER TRANSFER SYSTEM USING RESONANCE PRINCIPLE WITH SECURITY FEATURES. IJUM Engineering Journal, 2017, 18, 117-127.	0.5	2
33	Improved Parameter Estimation for MRF Models for Varying Current. Advanced Science Letters, 2017, 23, 11002-11006.	0.2	0
34	In-Socket Sensory System for Transfemoral Amputees Using Piezoelectric Sensors: An Efficacy Study. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2466-2476.	3.7	21
35	Hybrid of conical and spiral approach for Wireless Power Transfer. , 2016, , .		1
36	Resonant coils analysis for inductively coupled wireless power transfer applications. , 2016, , .		12

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37	Dynamic Tuning of Torsional Transmissibility Using Magnetorheological Elastomer: Modelling and Experimental Verification. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2016, 40, 181-187.	0.8	7
38	Investigation of anisotropic reflectance from densified arrays of vertically aligned carbon nanotube forests (VACNTs). Chemical Physics Letters, 2016, 658, 343-346.	1.2	2
39	Enhancement of reflectance of densified vertically aligned carbon nanotube forests. Carbon Letters, 2016, 18, 67-70.	3.3	5
40	Estimating perturbation in eigenvalues for robust vibration controller design: analytical derivation and simulation. International Journal of Engineering Systems Modelling and Simulation, 2015, 7, 95.	0.2	0
41	A Piezoelectric Based Energy Harvester with Magnetic Interactions: Modelling and Simulation. Advanced Materials Research, 2015, 1115, 549-554.	0.3	3
42	Preliminary work for SiC-based piezoelectric energy harvester with mathematical modelling and simulation study. AIP Conference Proceedings, 2015, , .	0.3	0
43	Optimal particle ratio to maximize the dynamic range of magnetorheological fluid (MRF) damper for prosthetic limb. , 2015, , .		1
44	Experimental study on improving $\hat{1}/4$ -WEDM and $\hat{1}/4$ -EDM of doped silicon by temporary metallic coating. International Journal of Advanced Manufacturing Technology, 2015, 78, 1651-1663.	1.5	29
45	Optimal piezoelectric beam shape for single and broadband vibration energy harvesting: Modeling, simulation and experimental results. Mechanical Systems and Signal Processing, 2015, 54-55, 417-426.	4.4	140
46	Optimization in Active Vibration Control: Virtual Experimentation Using COMSOL Multiphysics - MATLAB Integration. , 2014, , .		3
47	Estimating ensemble average power delivered by a piezoelectric patch actuator to a non-deterministic subsystem. Journal of Sound and Vibration, 2014, 333, 1149-1162.	2.1	6
48	Hybrid DE-PEM algorithm for identification of UAV helicopter. Aircraft Engineering and Aerospace Technology, 2014, 86, 385-405.	0.8	9
49	Power Input to non-deterministic Subsystems via Piezoelectric Patch Actuators: Effect of the patch size and location. Journal of Physics: Conference Series, 2013, 423, 012065.	0.3	2
50	Low voltage DC power supply with spike-blocking features. , 2013, , .		5
51	Harvesting vibration energy using piezoelectric material: Modeling, simulation and experimental verifications. Mechatronics, 2013, 23, 61-66.	2.0	48
52	Machinability Improvement for Stainless Steel AISI 304 in Turning by Applying Magnetically Damped Cutting. Applied Mechanics and Materials, 2013, 393, 177-182.	0.2	0
53	Comparison Vibration Amplitude for Magnetic Damping in Turning of Stainless Steel AISI 304. Applied Mechanics and Materials, 2013, 394, 251-255.	0.2	1
54	Novel design of a self powered and self sensing magneto-rheological damper. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012048.	0.3	10

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55	Development of real time experimental system for investigating photochromic response to UV irradiation. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012083.	0.3	2
56	Ant Colony Optimization for Controller and Sensor-Actuator Location in Active Vibration Control. Journal of Low Frequency Noise Vibration and Active Control, 2013, 32, 293-308.	1.3	9
57	Active Vibration Isolation System to Improve Free Space Optics Communication. Lecture Notes in Electrical Engineering, 2013, , 369-378.	0.3	2
58	Evaluation of Different Control Policies of Semi-Active MR Fluid Damper of a Quarter-Car Model. Applied Mechanics and Materials, 2012, 165, 310-315.	0.2	6
59	Active Dynamic Vibration Absorber for Broadband Control of a Multi-Mode System: Simulation and Experimental Verification. Journal of Low Frequency Noise Vibration and Active Control, 2012, 31, 159-173.	1.3	6
60	Vibration Energy Harvesting using Single and Comb-shaped Piezoelectric Beam Structures: Modeling and Simulation. Procedia Engineering, 2012, 41, 1228-1234.	1.2	17
61	Fuzzy-based Temperature and Humidity Control for HV AC of Electric Vehicle. Procedia Engineering, 2012, 41, 904-910.	1.2	39
62	Fuzzy-PID Controller for Semi-Active Vibration Control Using Magnetorheological Fluid Damper. Procedia Engineering, 2012, 41, 1221-1227.	1.2	44
63	Wideband Vibration Control in Multi Degree of Freedom System: Experimental Verification Using Labview. Procedia Engineering, 2012, 41, 1235-1243.	1.2	6
64	Ripple voltage and its elimination in low voltage power supply. , 2012, , .		0
65	Regulation of stable low voltage power supply through phase angle modulation: Simulation details. , 2012, , .		0
66	A comparative study of power consumption of electric power steering system. , 2012, , .		0
67	Active control of high-frequency vibration: Optimisation using the hybrid modelling method. Journal of Sound and Vibration, 2012, 331, 2969-2983.	2.1	24
68	Optimization of PID controller for flexible link system using a pareto-based multi-objective differential (PMODE) evolution. , 2011, , .		11
69	Animal sound activity detection using multi-class support vector machines. , 2011, , .		5
70	Vibration based energy harvesting using piezoelectric material. , 2011, , .		11
71	Robust H-infinity controller synthesis using multi-objectives differential evolution algorithm (MODE) for two-mass-spring system. , 2011, , .		6
72	Design and development of an Active Mass Damper for broadband vibration control. , 2011, , .		5

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73	Optimizing dynamic range of Magnetorheological fluid dampers: Modeling and simulation. , 2011, , .		11
74	Active Vibration Isolation System for Free Space Optic Communication: Virtual Prototyping Using LabVIEW-SolidWorks. Applied Mechanics and Materials, 2011, 105-107, 733-737.	0.2	0
75	<i>H<sub>∞</sub></i> robust controller for autonomous helicopter hovering control. Aircraft Engineering and Aerospace Technology, 2011, 83, 363-374.	0.8	18
76	A LabVIEW based data acquisition system for vibration monitoring and analysis. , 0, , .		40
77	Vibration faults simulation system (VFSS): a system for teaching and training on fault detection and diagnosis. , 0, , .		3
78	Optimal Damper Location for Mid-High Frequency Vibration Control on Built-Up Structures: Case Study Using VA One. Applied Mechanics and Materials, 0, 105-107, 705-709.	0.2	0
79	Parallel Manipulator for Auto Tracking System: Virtual Prototyping Using LabVIEW- Solidworks. Advanced Materials Research, 0, 576, 777-780.	0.3	0
80	Design and Fabrication of Active Vibration Isolation System for Free Space Optics Communication. Advanced Materials Research, 0, 576, 753-756.	0.3	0
81	Influence of Magnetic Field on Chip Serration Frequency for Turning Stainless Steel AISI 304. Applied Mechanics and Materials, 0, 394, 217-221.	0.2	1
82	Investigation of Annular Gap Size for Optimizing the Dynamic Range of MR Damper Using Comsol Multiphysics Software. Applied Mechanics and Materials, 0, 606, 187-192.	0.2	4
83	Active Vibration Control using Piezoelectric Actuator: Implementation of Ant Colony Optimization Technique in Virtual Experimentation. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
84	Energy harvesting from railway slab-tracks with continuous slabs. JVC/Journal of Vibration and Control, 0, , 107754632110542.	1.5	1