

# Mehmet Bülent Aker

## List of Publications by Year in descending order

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25  
papers

448  
citations

759233

12  
h-index

940533

16  
g-index

26  
all docs

26  
docs citations

26  
times ranked

431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending Den Hartog's Vibration Absorber Technique to Multi-Degree-of-Freedom Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 341-350.	1.6	73
2	Microfluidic bio-particle manipulation for biotechnology. Biochemical Engineering Journal, 2014, 92, 63-82.	3.6	65
3	Identification of structural non-linearities using describing functions and the Sherman-Morrison method. Mechanical Systems and Signal Processing, 2009, 23, 30-44.	8.0	53
4	Boundary element model for simulating sound propagation and source localization within the lungs. Journal of the Acoustical Society of America, 2007, 122, 657-671.	1.1	32
5	Application of Sherman-Morrison matrix inversion formula to damped vibration absorbers attached to multi-degree of freedom systems. Journal of Sound and Vibration, 2005, 283, 1235-1249.	3.9	30
6	An integrated acoustic and dielectrophoretic particle manipulation in a microfluidic device for particle wash and separation fabricated by mechanical machining. Biomicrofluidics, 2016, 10, 014112.	2.4	26
7	Passively minimizing structural sound radiation using shunted piezoelectric materials. Journal of the Acoustical Society of America, 2003, 114, 1934-1946.	1.1	25
8	Numerical modeling of ultrasonic particle manipulation for microfluidic applications. Microfluidics and Nanofluidics, 2014, 17, 1025-1037.	2.2	25
9	Tracking free surface and estimating sloshing force using image processing. Experimental Thermal and Fluid Science, 2017, 88, 423-433.	2.7	23
10	Experimental and Computational Models for Simulating Sound Propagation Within the Lungs. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, nihpa45263.	1.6	22
11	Piezoceramic Hysteresis in the Adaptive Structural Vibration Control Problem. Journal of Intelligent Material Systems and Structures, 2002, 13, 117-124.	2.5	21
12	A Novel Artificial Pancreas: Energy Efficient Valveless Piezoelectric Actuated Closed-Loop Insulin Pump for T1DM. Applied Sciences (Switzerland), 2020, 10, 5294.	2.5	19
13	Investigation of effect of design and operating parameters on acoustophoretic particle separation via 3D device-level simulations. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	12
14	An extended view for acoustofluidic particle manipulation: Scenarios for actuation modes and device resonance phenomenon for bulk-acoustic-wave devices. Journal of the Acoustical Society of America, 2021, 149, 2802-2812.	1.1	9
15	Closed form solutions of weakly nonlinear multi-degree of freedom systems with single nonlinear element. Journal of Sound and Vibration, 2015, 344, 345-362.	3.9	3
16	<title>Modeling the effect of piezoceramic hysteresis in structural vibration control</title>. , 2001, , .		2
17	<title>Optimal passive and hybrid control of vibration and sound radiation from linear and nonlinear PZT-based smart structures</title>. , 2002, , .		2
18	Simulation of Fluid Sloshing for Decreasing the Response of Structural Systems. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Development of a method for maximum structural response prediction of a store externally carried by a jet fighter. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 777-788.	1.3	2
20	Simulation of an Integrated Microfluidic Device for Bioparticle Wash, Separation and Concentration. , 2013, , .		1
21	Computational Fluid Dynamics and Proper Orthogonal Decomposition based control of flow over supersonic cavities. , 2019, , .		1
22	Applications of the Sherman-Morrison Matrix Inversion Formula in Linear and Non-Linear Vibrations, Controls and Acoustics. , 2003, , 2085.		0
23	Experimental and Computational Models for Simulating Sound Propagation and Acoustic Source Localization Within the Lungs. , 2006, , 55.		0
24	A Numerically Efficient Frequency Domain Method for Analysis of Non-Linear Multi Degree of Freedom Systems. , 2012, , .		0
25	Finite Element Modeling of Micro-Particle Separation Using Ultrasonic Standing Waves. , 2014, , .		0