

Mehmet Bülent Aker

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	A Novel Artificial Pancreas: Energy Efficient Valveless Piezoelectric Actuated Closed-Loop Insulin Pump for T1DM. Applied Sciences (Switzerland), 2020, 10, 5294.	2.5	19
5	Computational Fluid Dynamics and Proper Orthogonal Decomposition based control of flow over supersonic cavities. , 2019, , .		1
6	Tracking free surface and estimating sloshing force using image processing. Experimental Thermal and Fluid Science, 2017, 88, 423-433.	2.7	23
7	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
8	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
9	Simulation of Fluid Sloshing for Decreasing the Response of Structural Systems. , 2014, , .		2
10	Finite Element Modeling of Micro-Particle Separation Using Ultrasonic Standing Waves. , 2014, , .		0
11	Numerical modeling of ultrasonic particle manipulation for microfluidic applications. Microfluidics and Nanofluidics, 2014, 17, 1025-1037.	2.2	25
12	Microfluidic bio-particle manipulation for biotechnology. Biochemical Engineering Journal, 2014, 92, 63-82.	3.6	65
13	Simulation of an Integrated Microfluidic Device for Bioparticle Wash, Separation and Concentration. , 2013, , .		1
14	A Numerically Efficient Frequency Domain Method for Analysis of Non-Linear Multi Degree of Freedom Systems. , 2012, , .		0
15	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
16	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
17	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
18	Experimental and Computational Models for Simulating Sound Propagation and Acoustic Source Localization Within the Lungs. , 2006, , 55.		0

#	ARTICLE	IF	CITATIONS
19	Application of Shermanâ€™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
20	Extending Den Hartogâ€™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
21	Passively minimizing structural sound radiation using shunted piezoelectric materials. Journal of the Acoustical Society of America, 2003, 114, 1934-1946.	1.1	25
22	Applications of the Sherman-Morrison Matrix Inversion Formula in Linear and Non-Linear Vibrations, Controls and Acoustics. , 2003, , 2085.		0
23	Piezoceramic Hysteresis in the Adaptive Structural Vibration Control Problem. Journal of Intelligent Material Systems and Structures, 2002, 13, 117-124.	2.5	21
24	<title>Optimal passive and hybrid control of vibration and sound radiation from linear and nonlinear PZT-based smart structures</title>. , 2002, , .		2
25	<title>Modeling the effect of piezoceramic hysteresis in structural vibration control</title>. , 2001, , .		2