

Peter L Bishay

List of Publications by Year in descending order

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21
papers

183
citations

1163117

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1125743

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21
times ranked

105
citing authors

#	ARTICLE	IF	CITATIONS
1	Teaching design of composite structures through Composite Analysis and Design Apps (CADA) and Design Challenges. <i>Computer Applications in Engineering Education</i> , 2022, 30, 1036-1059.	3.4	1
2	Experimental analysis of fiber-reinforced laminated composite plates with embedded SMA wire actuators. <i>Composite Structures</i> , 2022, 292, 115678.	5.8	8
3	Parameter Identification of the Nonlinear Piezoelectric Shear d_{15} Coefficient of a Smart Composite Actuator. <i>Actuators</i> , 2021, 10, 168.	2.3	0
4	Parametric Study of a Composite Skin for a Twist-Morphing Wing. <i>Aerospace</i> , 2021, 8, 259.	2.2	15
5	Design of periodic laminated composite beams in free vibration. <i>Structures</i> , 2021, 34, 2030-2040.	3.6	3
6	Teaching the finite element method fundamentals to undergraduate students through truss builder and truss analyzer computational tools and student-generated assignments mini-projects. <i>Computer Applications in Engineering Education</i> , 2020, 28, 1007-1027.	3.4	6
7	Development of a biomimetic transradial prosthetic arm with shape memory alloy muscle wires. <i>Engineering Research Express</i> , 2020, 2, 035041.	1.6	10
8	Analysis and design of periodic beams for vibration attenuation. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 228-240.	2.6	7
9	Perturbation finite element solution for chemo-elastic boundary value problems under chemical equilibrium. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 981-991.	3.4	3
10	Development of an SMA-based camber morphing UAV tail core design. <i>Smart Materials and Structures</i> , 2019, 28, 075024.	3.5	27
11	Development of a New Span-Morphing Wing Core Design. <i>Designs</i> , 2019, 3, 12.	2.4	20
12	Sensitivity analysis of a smart soft composite robotic finger design using geometrically nonlinear laminated composite finite beam elements. <i>Materials Today Communications</i> , 2018, 16, 111-118.	1.9	5
13	Introducing undergraduate research in Numerical Analysis of Engineering Systems course. <i>International Journal of Mechanical Engineering Education</i> , 2018, 46, 345-361.	1.0	4
14	“FEApps”: Boosting students’™ enthusiasm for coding and app designing, with a deeper learning experience in engineering fundamentals. <i>Computer Applications in Engineering Education</i> , 2016, 24, 456-463.	3.4	8
15	Micromechanical Modeling of Piezoelectric-piezomagnetic Composites Using Computational Piezo-grains (CPGs). <i>Materials Today: Proceedings</i> , 2016, 3, 167-172.	1.8	2
16	Computational Piezo-Grains (CPGs) for a highly-efficient micromechanical modeling of heterogeneous piezoelectric-piezomagnetic composites. <i>European Journal of Mechanics, A/Solids</i> , 2015, 53, 311-328.	3.7	14
17	Multi-physics computational grains (MPCGs) for direct numerical simulation (DNS) of piezoelectric composite/porous materials and structures. <i>Computational Mechanics</i> , 2014, 54, 1129-1139.	4.0	14
18	Trefftz-Lekhnitskii Grains (TLGs) for efficient Direct Numerical Simulation (DNS) of the micro/meso mechanics of porous piezoelectric materials. <i>Computational Materials Science</i> , 2014, 83, 235-249.	3.0	13

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19	Multi-region Trefftz collocation grains (MTCGs) for modeling piezoelectric composite and porous materials in direct and inverse problems. <i>Journal of Mechanics of Materials and Structures</i> , 2014, 9, 287-312.	0.6	8
20	On the mechanics of a detaching retina. <i>Mathematical Medicine and Biology</i> , 2013, 30, 287-310.	1.2	13
21	Analysis of periodic laminated fiber-reinforced composite beams in free vibration. <i>JVC/Journal of Vibration and Control</i> , 0, , 107754632110286.	2.6	2