

Olavo M Silva

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7152271/publications.pdf>

Version: 2024-02-01

20
papers

156
citations

1307594

7
h-index

1199594

12
g-index

24
all docs

24
docs citations

24
times ranked

132
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical analysis of using the dynamic compliance as objective function in topology optimization of one-material structures considering steady-state forced vibration problems. Journal of Sound and Vibration, 2019, 444, 1-20.	3.9	35
2	On the use of active and reactive input power in topology optimization of one-material structures considering steady-state forced vibration problems. Journal of Sound and Vibration, 2020, 464, 114989.	3.9	22
3	Modeling of acoustic porous material absorber using rigid multiple micro-ducts network: Validation of the proposed model. Journal of Sound and Vibration, 2019, 443, 376-396.	3.9	17
4	An FEM-based method to evaluate and optimize vibration power flow through a beam-to-plate connection. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 413-426.	1.6	11
5	Shape preserving design of vibrating structures using topology optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1109-1119.	3.5	11
6	Topology optimization for harmonic vibration problems using a density-weighted norm objective function. Structural and Multidisciplinary Optimization, 2020, 62, 3301-3327.	3.5	10
7	Vibroacoustic Models of Air-Core Reactors. International Journal of Acoustics and Vibrations, 2016, 21, .	0.3	9
8	A strategy based on the strainâ€”kinetic energy ratio to ensure stability and convergence in topology optimization of globally resonating oneâ€”material structures. International Journal for Numerical Methods in Engineering, 2020, 121, 3636-3659.	2.8	6
9	Noise and Vibration Analysis of a Heat Exchanger: a Case Study. International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	6
10	Shape optimization of compressor supporting plate based on vibration modes. Noise Control Engineering Journal, 2015, 63, 49-58.	0.3	5
11	Robust topology optimization for harmonic displacement minimization of structures subjected to uncertainty in the excitation frequency. Computer Methods in Applied Mechanics and Engineering, 2021, 379, 113767.	6.6	5
12	Identification of Three-Dimensional Equivalent Material Properties for Laminated Disks Pack of Electric Machine Stators: Application in Reciprocal Compressors. Shock and Vibration, 2019, 2019, 1-18.	0.6	4
13	Influence of Density-Based Topology Optimization Parameters on the Design of Periodic Cellular Materials. Materials, 2019, 12, 3736.	2.9	4
14	Shape and position preserving design of vibrating structures by controlling local energies through topology optimization. Journal of Sound and Vibration, 2021, 515, 116478.	3.9	4
15	Development of a stochastic dynamical model for hermetic compressor's components with experimental investigation. Mechanical Systems and Signal Processing, 2016, 76-77, 712-728.	8.0	2
16	On the Use of Complex Input Power in Topology Optimization of One-Material Vibrating Structures for Obtaining Displacement Anti-resonances Close to Frequencies of Interest. , 2019, , 829-843.		2
17	Insertion loss analysis of slender beams with periodic curvatures using quaternion-based parametrization, FE method and wave propagation approach. Journal of Sound and Vibration, 2019, 455, 82-95.	3.9	1
18	Local averaged stratified sampling method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	1

#	ARTICLE	IF	CITATIONS
19	On the contribution of magnetic forces to the overall noise of reciprocating compressors. Noise Control Engineering Journal, 2019, 67, 42-55.	0.3	0
20	Structural Response of a Reciprocating Compressor's Discharge Tube Subjected to Model and Data Uncertainties. , 2018, 23, 385-391.		0