

# Francois Pigache

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

261  
citations

1307594

7  
h-index

1125743

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

227  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of heat transfer enhancement methods and new perspectives: Focus on active methods using electroactive materials. International Journal of Heat and Mass Transfer, 2013, 61, 505-524.	4.8	157
2	Multimodal electromechanical model of piezoelectric transformers by Hamilton's principle. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2530-2543.	3.0	21
3	Optimal Design of Piezoelectric Transformers: A Rational Approach Based on an Analytical Model and a Deterministic Global Optimization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1293-1302.	3.0	13
4	Modeling of a ring rosen-type piezoelectric transformer by Hamilton's principle. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 709-720.	3.0	11
5	Modeling and Identification of Rosen-Type Transformer in Nonlinear Behavior. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2562-2570.	3.0	10
6	Modelling and identification of a planar standing wave ultrasonic motor. EPJ Applied Physics, 2006, 34, 55-65.	0.7	9
7	First Approach for the Modelling of the Electric Field Surrounding a Piezoelectric Transformer in View of Plasma Generation. IEEE Transactions on Magnetics, 2012, 48, 423-426.	2.1	8
8	Control of pool boiling incipience in confined space: Dynamic morphing of the wall effect. Applied Thermal Engineering, 2013, 51, 451-458.	6.0	7
9	Analytical modeling of electrical potential repartition on piezoelectric transformer. , 2010, , .		4
10	Low-Voltage Plasma Jet With Piezoelectric Generator: Preliminary Evaluation of Decontamination Capabilities. IEEE Transactions on Plasma Science, 2020, 48, 1264-1270.	1.3	4
11	Experimental analysis of piezoelectric plasma discharge generator. , 2012, , .		3
12	Analyses of temperature influence in piezoelectric transformers dedicated to plasma generation. , 2015, , .		3
13	Liquid cooling of a microprocessor: experimentation and simulation of a sub-millimeter channel heat exchanger. Heat Transfer Engineering, 2020, 41, 1365-1381.	1.9	3
14	Measurement of the electric potential distribution on piezoelectric ceramic surface. , 2013, , .		2
15	Studying impacts of travelling wave shape on pumping for active cooling. , 2017, , .		2
16	Effect of external load resistance on Rosen transformer surface electrical potential. Ferroelectrics, 2018, 537, 181-190.	0.6	2
17	Reprint of "Control of pool boiling incipience in confined space: Dynamic morphing of the wall effect". Applied Thermal Engineering, 2013, 59, 696-703.	6.0	1
18	DYNAMIC ACTIVATION OF SINGLE VAPOR EMBRYO GROWTH: ANALYSES OF THERMAL AND MOMENTUM INERTIA EFFECTS. Interfacial Phenomena and Heat Transfer, 2014, 2, 139-154.	0.8	1

#	ARTICLE	IF	CITATIONS
19	Educational bench: self-controlled synchronous machine. , 2008, , .		0
20	Peristaltic pumping by huge amplitude piezoelectric traveling wave actuator. , 2021, , .		0