

# Sergio Nardini

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8617663/sergio-nardini-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

2,386  
citations

22  
h-index

47  
g-index

133  
ext. papers

2,698  
ext. citations

2.8  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
101	Entropy generation analysis of laminar forced convection with nanofluids at pore length scale in porous structures with Kelvin cells. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 132, 105883	5.8	1
100	Analysis of technology diffusion policies for renewable energy. The case of the Italian solar photovoltaic sector. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 46, 101250	4.7	3
99	Evaluation of thermal and fluid dynamic performance parameters in aluminum foam compact heat exchangers. <i>Applied Thermal Engineering</i> , <b>2020</b> , 176, 115456	5.8	11
98	Numerical Analysis on a Latent Thermal Energy Storage System with Phase Change Materials and Aluminum Foam. <i>Heat Transfer Engineering</i> , <b>2020</b> , 41, 1075-1084	1.7	13
97	Selected Papers from the AIGE 2016 Conference on Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems. <i>Heat Transfer Engineering</i> , <b>2020</b> , 41, 1011-1013	1.7	
96	Numerical study on latent thermal energy storages with PCM partially filled with aluminium foam. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1224, 012039	0.3	
95	Understanding energy consumption and carbon emissions in Europe: A focus on inequality issues. <i>Energy</i> , <b>2019</b> , 170, 120-130	7.9	51
94	Numerical investigation of an inclined rectangular cavity for ventilated roofs applications. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 6, 426-435	3.6	9
93	Numerical investigation on aluminum foam application in a tubular heat exchanger. <i>Heat and Mass Transfer</i> , <b>2018</b> , 54, 2589-2597	2.2	7
92	Feasibility study of a geothermal energy system for indoor swimming pool in Campi Flegrei area. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 6, 421-425	3.6	13
91	Selected Papers from the ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization, and the Environment. <i>Heat Transfer Engineering</i> , <b>2018</b> , 39, 195-197	1.7	1
90	Transient Simulation of a Solar Cooling System for an Agro-Industrial Application. <i>Energy Procedia</i> , <b>2018</b> , 148, 328-335	2.3	1
89	Numerical investigation on laminar slot-jet impinging on a surface at uniform heat flux in a channel partially filled with a porous medium. <i>Energy Procedia</i> , <b>2018</b> , 148, 790-797	2.3	3
88	Numerical investigation on forced convection in rectangular cross section micro-channels with nanofluids. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 796, 012013	0.3	1
87	Local Thermal Non-Equilibrium Investigation on Natural Convection in Horizontal Channel Heated from Above and Partially Filled with Aluminum Foam. <i>Energy Procedia</i> , <b>2017</b> , 126, 42-49	2.3	3
86	A Trnsys Simulation of a Solar-Driven Air Refrigerating System for a Low-Temperature Room of an Agro-Industry site in the Southern part of Italy. <i>Energy Procedia</i> , <b>2017</b> , 126, 329-336	2.3	6
85	Numerical investigation on laminar round-jet impinging on a surface at uniform heat flux in a channel partially filled with a porous medium. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 796, 012012	0.3	

84	A Numerical and Experimental Investigation on Impinging Round Jets in Channel Partially Filled With Porous Media <b>2017</b> ,		1
83	Numerical investigation on thermal behaviors of two-dimensional latent thermal energy storage with PCM and aluminum foam. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 796, 012031	0.3	4
82	Numerical investigation on natural convection in horizontal channel partially filled with aluminium foam and heated from above. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 923, 012049	0.3	3
81	Comparison between different solar cooling thermally driven system solutions for an office building in Mediterranean Area. <i>International Journal of Heat and Technology</i> , <b>2017</b> , 35, 130-138	2.2	7
80	Thermal behavior evaluation of ventilated roof under summer and winter conditions. <i>International Journal of Heat and Technology</i> , <b>2017</b> , 35, S353-S360	2.2	3
79	A Numerical Analysis on a Compact Heat Exchanger in Aluminum Foam. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 745, 032141	0.3	2
78	Confined Impinging Jets in Porous Media. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 745, 032142	0.3	6
77	Nanofluid Impinging Jets in Porous Media <b>2016</b> , 7, 84-113		1
76	Forced convection enhancement in channels with transversal ribs and nanofluids. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 1044-1053	5.8	51
75	Thermal and fluid dynamic behaviors of confined laminar impinging slot jets with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 70, 15-26	5.8	36
74	Experimental and Numerical Investigation on Forced Convection in Circular Tubes With Nanofluids. <i>Heat Transfer Engineering</i> , <b>2016</b> , 37, 1201-1210	1.7	16
73	Thermal behavior evaluation of ventilated roof under variable solar radiation. <i>International Journal of Heat and Technology</i> , <b>2016</b> , 34, S346-S350	2.2	3
72	Thermal Behaviors of Latent Thermal Energy Storage System with PCM and Aluminum Foam. <i>International Journal of Heat and Technology</i> , <b>2016</b> , 34, S359-S364	2.2	6
71	Experimental Investigation on Fluid Dynamic and Thermal Behavior in Confined Impinging Round Jets in Aluminum Foam. <i>Energy Procedia</i> , <b>2016</b> , 101, 1095-1102	2.3	7
70	Experimental Evaluation of Fluid Dynamic and Thermal Behaviors in Compact Heat Exchanger with Aluminum Foam. <i>Energy Procedia</i> , <b>2016</b> , 101, 1103-1110	2.3	9
69	Numerical investigation on laminar slot-jet impinging in a confined porous medium in local thermal non-equilibrium. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 98, 484-492	4.9	22
68	A Numerical Analysis on Nanofluid Mixed Convection in Triangular Cross-Sectioned Ducts Heated by a Uniform Heat Flux. <i>Advances in Mechanical Engineering</i> , <b>2015</b> , 7, 292973	1.2	5
67	Effect of temperature and sonication time on nanofluid thermal conductivity measurements by nano-flash method. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 181-190	5.8	64

66	Numerical investigation of convective-radiative heat transfer in a building-integrated solar chimney. <i>Advances in Building Energy Research</i> , <b>2015</b> , 9, 253-266	1.8	7
65	NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON A SOLAR CHIMNEY INTEGRATED IN A BUILDING FACADE. <i>International Journal of Heat and Technology</i> , <b>2015</b> , 33, 246-254	2.2	2
64	Entropy generation analysis of turbulent convection flow of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a circular tube subjected to constant wall heat flux. <i>Energy Conversion and Management</i> , <b>2014</b> , 77, 306-314	10.6	98
63	Performance analysis of turbulent convection heat transfer of Al <sub>2</sub> O <sub>3</sub> water-nanofluid in circular tubes at constant wall temperature. <i>Energy</i> , <b>2014</b> , 77, 403-413	7.9	75
62	An Analysis of the Electricity Sector in Romania. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , <b>2014</b> , 9, 149-155	3.1	8
61	Numerical Investigation on Thermal Behaviors of an Inclined Ventilated Roof <b>2014</b> ,		1
60	Numerical Simulation of Convective-Radiative Heat Transfer in a Solar Chimney <b>2014</b> ,		1
59	Local Thermal Non-Equilibrium in Mixed Convection in Channels Partially Heated at Uniform Heat Flux Filled With a Porous Medium <b>2014</b> ,		3
58	Mixed convection in horizontal channels partially filled with aluminium foam heated from below and with external heat losses on upper plate. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 501, 012005	0.3	4
57	Effects of High Reynolds Number Impinging Jet on the Heat Conduction in Work-Pieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , <b>2014</b> , 354, 189-194	0.7	
56	Experimental Investigation on Mixed Convection in Horizontal Channels Heated Below and Partially Filled with Aluminium Foam <b>2014</b> ,		2
55	Linear Regression Models to Forecast Electricity Consumption in Italy. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , <b>2013</b> , 8, 86-93	3.1	54
54	Second Law Analysis of Al <sub>2</sub> O <sub>3</sub> -Water Nanofluid Turbulent Forced Convection in a Circular Cross Section Tube with Constant Wall Temperature. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 920278	1.2	21
53	Transient mixed convection in a channel with an open cavity filled with porous media. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 395, 012149	0.3	4
52	A numerical study of nanofluid forced convection in ribbed channels. <i>Applied Thermal Engineering</i> , <b>2012</b> , 37, 280-292	5.8	182
51	Numerical Study of Laminar Confined Impinging Slot Jets with Nanofluids. <i>Advances in Mechanical Engineering</i> , <b>2012</b> , 4, 248795	1.2	9
50	Numerical Investigation on Mixed Convection in Triangular Cross-Section Ducts with Nanofluids. <i>Advances in Mechanical Engineering</i> , <b>2012</b> , 4, 139370	1.2	7
49	Numerical Simulation of Transient Temperature Fields in Solids Irradiated by Moving Gaussian and Donut Sources. <i>Defect and Diffusion Forum</i> , <b>2011</b> , 312-315, 959-964	0.7	

48	Numerical Study of Transient Natural Convection in Air in Vertical Divergent Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2011</b> , 60, 580-603	2.3	6
47	Numerical study of a confined slot impinging jet with nanofluids. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 188	5	84
46	Enhancement of heat transfer and entropy generation analysis of nanofluids turbulent convection flow in square section tubes. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 252	5	63
45	Numerical investigation on nanofluids turbulent convection heat transfer inside a circular tube. <i>International Journal of Thermal Sciences</i> , <b>2011</b> , 50, 341-349	4.1	156
44	Darcy mixed convection in a fluid saturated square porous enclosure under multiple suction effect. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2011</b> , 21, 602-617	4.5	7
43	Effect of Impinging Jet on Heat Conduction in Workpieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , <b>2011</b> , 312-315, 924-928	0.7	1
42	Numerical Analysis of Water Forced Convection in Channels with Differently Shaped Transverse Ribs. <i>Journal of Applied Mathematics</i> , <b>2011</b> , 2011, 1-25	1.1	17
41	Numerical investigation of air forced convection in channels with differently shaped transverse ribs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2011</b> , 21, 618-639	4.5	22
40	NUMERICAL STUDY OF AIR FORCED CONVECTION IN A CHANNEL PROVIDED WITH INCLINED RIBS. <i>Frontiers in Heat and Mass Transfer</i> , <b>2011</b> , 2,		3
39	Natural Convection in Vertical Channels with Porous Media and Adiabatic Extensions. <i>Defect and Diffusion Forum</i> , <b>2010</b> , 297-301, 1432-1438	0.7	
38	Effect of Solid Thickness on Transient Heat Conduction in Workpieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , <b>2010</b> , 297-301, 1445-1450	0.7	5
37	Thermal and Fluid Dynamic Analysis on Impinging Jet for Aircraft Anti-Icing <b>2010</b> ,		1
36	Analysis and forecasting of nonresidential electricity consumption in Romania. <i>Applied Energy</i> , <b>2010</b> , 87, 3584-3590	10.7	97
35	Radiative effects on natural convection in vertical convergent channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 3513-3524	4.9	21
34	Numerical Simulation of Water/Al <sub>2</sub> O <sub>3</sub> Nanofluid Turbulent Convection. <i>Advances in Mechanical Engineering</i> , <b>2010</b> , 2, 976254	1.2	31
33	Experimental Investigation of Radiation Effects on Natural Convection in Horizontal Channels Heated From Above. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	7
32	A Two-Dimensional Numerical Investigation on Forced Convection in Channels With Transversal Ribs <b>2009</b> ,		1
31	Impinging Jet on a Concave Surface for Aircraft Anti-Icing <b>2009</b> ,		1

30	Electricity consumption forecasting in Italy using linear regression models. <i>Energy</i> , <b>2009</b> , 34, 1413-1421	7.9	347
29	Numerical investigation of transient thermal and fluiddynamic fields in an executive aircraft cabin. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 3418-3425	5.8	27
28	Numerical investigation of nanofluids forced convection in circular tubes. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 3632-3642	5.8	312
27	Transient Heat Conduction in Solids Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , <b>2009</b> , 283-286, 358-363	0.7	7
26	Numerical investigation of sensible thermal energy storage in high temperature solar systems <b>2009</b>		2
25	Experimental Investigation of Opposing Mixed Convection in a Channel with an open Cavity Below. <i>Experimental Heat Transfer</i> , <b>2008</b> , 21, 99-114	2.4	25
24	Numerical investigation of transient single phase forced convection of nanofluids in circular tubes. <i>WIT Transactions on Engineering Sciences</i> , <b>2008</b> ,	2	2
23	Experimental investigation on natural convection in horizontal channels with the upper wall at uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 1075-1086	4.9	19
22	Experimental investigation on natural convection in a convergent channel with uniformly heated plates. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 2772-2786	4.9	8
21	Numerical Investigation of Transient Natural Convection in Air in a Convergent Vertical Channel Symmetrically Heated at Uniform Heat Flux. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2007</b> , 51, 1065-1086	2.3	13
20	Numerical Investigation of Forced Convection of Nanofluids in Circular Tubes <b>2007</b> , 839		
19	Numerical Investigation on Mixed Convection in a Horizontal Channel Heated From Below <b>2007</b> , 535		
18	Experimental Investigation of Mixed Convection in a Channel With an Open Cavity. <i>Experimental Heat Transfer</i> , <b>2006</b> , 19, 53-68	2.4	44
17	Experimental Investigation on the Effect of Longitudinal Aspect Ratio on Natural Convection in Inclined Channels Heated Below <b>2006</b> , 337		
16	Thermal design and optimization of vertical convergent channels in natural convection. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 170-177	5.8	9
15	Experimental Analysis of Opposing Flow in Mixed Convection in a Channel With an Open Cavity Below <b>2005</b> , 617		
14	Numerical analysis of natural convection in air in a vertical convergent channel with uniformly heated conductive walls. <i>International Communications in Heat and Mass Transfer</i> , <b>2005</b> , 32, 758-769	5.8	16
13	Two Dimensional Transient Analysis of Temperature Distribution in a Solid Irradiated by a Gaussian Laser Source <b>2004</b> , 217		8

12	Thermal Design of Uniformly Heated Vertical Convergent Channels in Natural Convection in Air <b>2004</b> , 237		
11	Radiation Effects on Natural Convection in Air in a Divergent Channel With Uniformly Heated Plates <b>2003</b> , 269		
10	Experimental Investigation on Mixed Convection in a Channel With an Open Cavity Below <b>2003</b> , 257		
9	An Experimental Study of Radiative Effects on Natural Convection in Air in Convergent Channels <b>2003</b> , 189		2
8	Thermal design of symmetrically and asymmetrically heated channelchimney systems in natural convection. <i>Applied Thermal Engineering</i> , <b>2003</b> , 23, 605-621	5.8	16
7	EFFECT OF HEATED WALL POSITION ON MIXED CONVECTION IN A CHANNEL WITH AN OPEN CAVITY. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2003</b> , 43, 259-282	2.3	83
6	Effect on Natural Convection of the Distance Between an Inclined Discretely Heated Plate and a Parallel Shroud Below. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 441-451	1.8	10
5	Thermal Design of Uniformly Heated Inclined Channels in Natural Convection with and without Radiative Effects. <i>Heat Transfer Engineering</i> , <b>2001</b> , 22, 13-28	1.7	28
4	Experimental Analysis of Thermal Instability in Natural Convection Between Horizontal Parallel Plates Uniformly Heated. <i>Journal of Heat Transfer</i> , <b>2000</b> , 122, 50-57	1.8	15
3	Composite Correlations for Air Natural Convection in Tilted Channels. <i>Heat Transfer Engineering</i> , <b>1999</b> , 20, 64-72	1.7	17
2	Visualization of Natural Convection in Inclined Heated Parallel Plates <b>1997</b> , 283-292		2
1	Surface periodic on-off heat flux over a semi-infinite body. <i>International Communications in Heat and Mass Transfer</i> , <b>1990</b> , 17, 125-134	5.8	