

Sergio Nardini

List of Publications by Citations

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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	Electricity consumption forecasting in Italy using linear regression models. <i>Energy</i> , 2009 , 34, 1413-1421	7.9	347
100	Numerical investigation of nanofluids forced convection in circular tubes. <i>Applied Thermal Engineering</i> , 2009 , 29, 3632-3642	5.8	312
99	A numerical study of nanofluid forced convection in ribbed channels. <i>Applied Thermal Engineering</i> , 2012 , 37, 280-292	5.8	182
98	Numerical investigation on nanofluids turbulent convection heat transfer inside a circular tube. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 341-349	4.1	156
97	Entropy generation analysis of turbulent convection flow of Al ₂ O ₃ -water nanofluid in a circular tube subjected to constant wall heat flux. <i>Energy Conversion and Management</i> , 2014 , 77, 306-314	10.6	98
96	Analysis and forecasting of nonresidential electricity consumption in Romania. <i>Applied Energy</i> , 2010 , 87, 3584-3590	10.7	97
95	Numerical study of a confined slot impinging jet with nanofluids. <i>Nanoscale Research Letters</i> , 2011 , 6, 188	5	84
94	EFFECT OF HEATED WALL POSITION ON MIXED CONVECTION IN A CHANNEL WITH AN OPEN CAVITY. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 43, 259-282	2.3	83
93	Performance analysis of turbulent convection heat transfer of Al ₂ O ₃ water-nanofluid in circular tubes at constant wall temperature. <i>Energy</i> , 2014 , 77, 403-413	7.9	75
92	Effect of temperature and sonication time on nanofluid thermal conductivity measurements by nano-flash method. <i>Applied Thermal Engineering</i> , 2015 , 91, 181-190	5.8	64
91	Enhancement of heat transfer and entropy generation analysis of nanofluids turbulent convection flow in square section tubes. <i>Nanoscale Research Letters</i> , 2011 , 6, 252	5	63
90	Linear Regression Models to Forecast Electricity Consumption in Italy. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2013 , 8, 86-93	3.1	54
89	Forced convection enhancement in channels with transversal ribs and nanofluids. <i>Applied Thermal Engineering</i> , 2016 , 98, 1044-1053	5.8	51
88	Understanding energy consumption and carbon emissions in Europe: A focus on inequality issues. <i>Energy</i> , 2019 , 170, 120-130	7.9	51
87	Experimental Investigation of Mixed Convection in a Channel With an Open Cavity. <i>Experimental Heat Transfer</i> , 2006 , 19, 53-68	2.4	44
86	Thermal and fluid dynamic behaviors of confined laminar impinging slot jets with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 70, 15-26	5.8	36
85	Numerical Simulation of Water/Al ₂ O ₃ Nanofluid Turbulent Convection. <i>Advances in Mechanical Engineering</i> , 2010 , 2, 976254	1.2	31

84	Thermal Design of Uniformly Heated Inclined Channels in Natural Convection with and without Radiative Effects. <i>Heat Transfer Engineering</i> , 2001 , 22, 13-28	1.7	28
83	Numerical investigation of transient thermal and fluiddynamic fields in an executive aircraft cabin. <i>Applied Thermal Engineering</i> , 2009 , 29, 3418-3425	5.8	27
82	Experimental Investigation of Opposing Mixed Convection in a Channel with an open Cavity Below. <i>Experimental Heat Transfer</i> , 2008 , 21, 99-114	2.4	25
81	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> , 2011 , 21, 618-639	4.5	22
80	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> , 2016 , 98, 484-492	4.9	22
79	Second Law Analysis of Al ₂ O ₃ -Water Nanofluid Turbulent Forced Convection in a Circular Cross Section Tube with Constant Wall Temperature. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 920278	1.2	21
78	Radiative effects on natural convection in vertical convergent channels. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3513-3524	4.9	21
77	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> , 2007 , 50, 1075-1086	4.9	19
76	Numerical Analysis of Water Forced Convection in Channels with Differently Shaped Transverse Ribs. <i>Journal of Applied Mathematics</i> , 2011 , 2011, 1-25	1.1	17
75	Composite Correlations for Air Natural Convection in Tilted Channels. <i>Heat Transfer Engineering</i> , 1999 , 20, 64-72	1.7	17
74	Experimental and Numerical Investigation on Forced Convection in Circular Tubes With Nanofluids. <i>Heat Transfer Engineering</i> , 2016 , 37, 1201-1210	1.7	16
73	Thermal design of symmetrically and asymmetrically heated channelchimney systems in natural convection. <i>Applied Thermal Engineering</i> , 2003 , 23, 605-621	5.8	16
72	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> , 2005 , 32, 758-769	5.8	16
71	Experimental Analysis of Thermal Instability in Natural Convection Between Horizontal Parallel Plates Uniformly Heated. <i>Journal of Heat Transfer</i> , 2000 , 122, 50-57	1.8	15
70	Feasibility study of a geothermal energy system for indoor swimming pool in Campi Flegrei area. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 421-425	3.6	13
69	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> , 2007 , 51, 1065-1086	2.3	13
68	Numerical Analysis on a Latent Thermal Energy Storage System with Phase Change Materials and Aluminum Foam. <i>Heat Transfer Engineering</i> , 2020 , 41, 1075-1084	1.7	13
67	Evaluation of thermal and fluid dynamic performance parameters in aluminum foam compact heat exchangers. <i>Applied Thermal Engineering</i> , 2020 , 176, 115456	5.8	11

66	Effect on Natural Convection of the Distance Between an Inclined Discretely Heated Plate and a Parallel Shroud Below. <i>Journal of Heat Transfer</i> , 2002 , 124, 441-451	1.8	10
65	Numerical investigation of an inclined rectangular cavity for ventilated roofs applications. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 426-435	3.6	9
64	Numerical Study of Laminar Confined Impinging Slot Jets with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 248795	1.2	9
63	Thermal design and optimization of vertical convergent channels in natural convection. <i>Applied Thermal Engineering</i> , 2006 , 26, 170-177	5.8	9
62	Experimental Evaluation of Fluid Dynamic and Thermal Behaviors in Compact Heat Exchanger with Aluminum Foam. <i>Energy Procedia</i> , 2016 , 101, 1103-1110	2.3	9
61	An Analysis of the Electricity Sector in Romania. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2014 , 9, 149-155	3.1	8
60	Experimental investigation on natural convection in a convergent channel with uniformly heated plates. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2772-2786	4.9	8
59	Two Dimensional Transient Analysis of Temperature Distribution in a Solid Irradiated by a Gaussian Laser Source 2004 , 217		8
58	Numerical investigation on aluminum foam application in a tubular heat exchanger. <i>Heat and Mass Transfer</i> , 2018 , 54, 2589-2597	2.2	7
57	Numerical investigation of convective-radiative heat transfer in a building-integrated solar chimney. <i>Advances in Building Energy Research</i> , 2015 , 9, 253-266	1.8	7
56	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> , 2011 , 21, 602-617	4.5	7
55	Experimental Investigation of Radiation Effects on Natural Convection in Horizontal Channels Heated From Above. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	7
54	Transient Heat Conduction in Solids Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 2009 , 283-286, 358-363	0.7	7
53	Numerical Investigation on Mixed Convection in Triangular Cross-Section Ducts with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 139370	1.2	7
52	Comparison between different solar cooling thermally driven system solutions for an office building in Mediterranean Area. <i>International Journal of Heat and Technology</i> , 2017 , 35, 130-138	2.2	7
51	Experimental Investigation on Fluid Dynamic and Thermal Behavior in Confined Impinging Round Jets in Aluminum Foam. <i>Energy Procedia</i> , 2016 , 101, 1095-1102	2.3	7
50	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> , 2017 , 126, 329-336	2.3	6
49	Confined Impinging Jets in Porous Media. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032142	0.3	6

48	Numerical Study of Transient Natural Convection in Air in Vertical Divergent Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011 , 60, 580-603	2.3	6
47	Thermal Behaviors of Latent Thermal Energy Storage System with PCM and Aluminum Foam. <i>International Journal of Heat and Technology</i> , 2016 , 34, S359-S364	2.2	6
46	A Numerical Analysis on Nanofluid Mixed Convection in Triangular Cross-Sectioned Ducts Heated by a Uniform Heat Flux. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 292973	1.2	5
45	Effect of Solid Thickness on Transient Heat Conduction in Workpieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 2010 , 297-301, 1445-1450	0.7	5
44	Numerical investigation on thermal behaviors of two-dimensional latent thermal energy storage with PCM and aluminum foam. <i>Journal of Physics: Conference Series</i> , 2017 , 796, 012031	0.3	4
43	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> , 2014 , 501, 012005	0.3	4
42	Transient mixed convection in a channel with an open cavity filled with porous media. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012149	0.3	4
41	Local Thermal Non-Equilibrium Investigation on Natural Convection in Horizontal Channel Heated from Above and Partially Filled with Aluminum Foam. <i>Energy Procedia</i> , 2017 , 126, 42-49	2.3	3
40	Numerical investigation on natural convection in horizontal channel partially filled with aluminium foam and heated from above. <i>Journal of Physics: Conference Series</i> , 2017 , 923, 012049	0.3	3
39	Local Thermal Non-Equilibrium in Mixed Convection in Channels Partially Heated at Uniform Heat Flux Filled With a Porous Medium 2014 ,		3
38	Thermal behavior evaluation of ventilated roof under variable solar radiation. <i>International Journal of Heat and Technology</i> , 2016 , 34, S346-S350	2.2	3
37	Thermal behavior evaluation of ventilated roof under summer and winter conditions. <i>International Journal of Heat and Technology</i> , 2017 , 35, S353-S360	2.2	3
36	NUMERICAL STUDY OF AIR FORCED CONVECTION IN A CHANNEL PROVIDED WITH INCLINED RIBS. <i>Frontiers in Heat and Mass Transfer</i> , 2011 , 2,		3
35	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> , 2018 , 148, 790-797	2.3	3
34	Analysis of technology diffusion policies for renewable energy. The case of the Italian solar photovoltaic sector. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101250	4.7	3
33	A Numerical Analysis on a Compact Heat Exchanger in Aluminum Foam. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032141	0.3	2
32	An Experimental Study of Radiative Effects on Natural Convection in Air in Convergent Channels 2003 , 189		2
31	Experimental Investigation on Mixed Convection in Horizontal Channels Heated Below and Partially Filled with Aluminium Foam 2014 ,		2

30	NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON A SOLAR CHIMNEY INTEGRATED IN A BUILDING FACADE. <i>International Journal of Heat and Technology</i> , 2015 , 33, 246-254	2.2	2
29	Numerical investigation of sensible thermal energy storage in high temperature solar systems 2009		2
28	Numerical investigation of transient single phase forced convection of nanofluids in circular tubes. <i>WIT Transactions on Engineering Sciences</i> , 2008 ,	2	2
27	Visualization of Natural Convection in Inclined Heated Parallel Plates 1997 , 283-292		2
26	Numerical investigation on forced convection in rectangular cross section micro-channels with nanofluids. <i>Journal of Physics: Conference Series</i> , 2017 , 796, 012013	0.3	1
25	Selected Papers from the ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization, and the Environment. <i>Heat Transfer Engineering</i> , 2018 , 39, 195-197	1.7	1
24	Nanofluid Impinging Jets in Porous Media 2016 , 7, 84-113		1
23	Numerical Investigation on Thermal Behaviors of an Inclined Ventilated Roof 2014 ,		1
22	A Numerical and Experimental Investigation on Impinging Round Jets in Channel Partially Filled With Porous Media 2017 ,		1
21	Numerical Simulation of Convective-Radiative Heat Transfer in a Solar Chimney 2014 ,		1
20	A Two-Dimensional Numerical Investigation on Forced Convection in Channels With Transversal Ribs 2009 ,		1
19	Impinging Jet on a Concave Surface for Aircraft Anti-Icing 2009 ,		1
18	Effect of Impinging Jet on Heat Conduction in Workpieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 2011 , 312-315, 924-928	0.7	1
17	Thermal and Fluid Dynamic Analysis on Impinging Jet for Aircraft Anti-Icing 2010 ,		1
16	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> , 2022 , 132, 105883	5.8	1
15	Transient Simulation of a Solar Cooling System for an Agro-Industrial Application. <i>Energy Procedia</i> , 2018 , 148, 328-335	2.3	1
14	Numerical study on latent thermal energy storages with PCM partially filled with aluminium foam. <i>Journal of Physics: Conference Series</i> , 2019 , 1224, 012039	0.3	
13	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> , 2017 , 796, 012012	0.3	

- 12 Effects of High Reynolds Number Impinging Jet on the Heat Conduction in Work-Pieces Irradiated by a Moving Heat Source. *Defect and Diffusion Forum*, **2014**, 354, 189-194 0.7
- 11 Numerical Simulation of Transient Temperature Fields in Solids Irradiated by Moving Gaussian and Donut Sources. *Defect and Diffusion Forum*, **2011**, 312-315, 959-964 0.7
- 10 Natural Convection in Vertical Channels with Porous Media and Adiabatic Extensions. *Defect and Diffusion Forum*, **2010**, 297-301, 1432-1438 0.7
- 9 Numerical Investigation of Forced Convection of Nanofluids in Circular Tubes **2007**, 839
- 8 Numerical Investigation on Mixed Convection in a Horizontal Channel Heated From Below **2007**, 535
- 7 Experimental Investigation on the Effect of Longitudinal Aspect Ratio on Natural Convection in Inclined Channels Heated Below **2006**, 337
- 6 Radiation Effects on Natural Convection in Air in a Divergent Channel With Uniformly Heated Plates **2003**, 269
- 5 Experimental Investigation on Mixed Convection in a Channel With an Open Cavity Below **2003**, 257
- 4 Thermal Design of Uniformly Heated Vertical Convergent Channels in Natural Convection in Air **2004**, 237
- 3 Experimental Analysis of Opposing Flow in Mixed Convection in a Channel With an Open Cavity Below **2005**, 617
- 2 Surface periodic on-off heat flux over a semi-infinite body. *International Communications in Heat and Mass Transfer*, **1990**, 17, 125-134 5.8
- 1 Selected Papers from the AIGE 2016 Conference on Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems. *Heat Transfer Engineering*, **2020**, 41, 1011-1013 1.7