

# Sergio Nardini

## List of Publications by Year in descending order

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133  
papers

3,052  
citations

257101

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168136

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133  
docs citations

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times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity consumption forecasting in Italy using linear regression models. <i>Energy</i> , 2009, 34, 1413-1421.	4.5	455
2	Numerical investigation of nanofluids forced convection in circular tubes. <i>Applied Thermal Engineering</i> , 2009, 29, 3632-3642.	3.0	386
3	A numerical study of nanofluid forced convection in ribbed channels. <i>Applied Thermal Engineering</i> , 2012, 37, 280-292.	3.0	219
4	Numerical investigation on nanofluids turbulent convection heat transfer inside a circular tube. <i>International Journal of Thermal Sciences</i> , 2011, 50, 341-349.	2.6	196
5	Analysis and forecasting of nonresidential electricity consumption in Romania. <i>Applied Energy</i> , 2010, 87, 3584-3590.	5.1	113
6	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> , 2014, 77, 306-314.	4.4	111
7	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.	1.2	105
8	Numerical study of a confined slot impinging jet with nanofluids. <i>Nanoscale Research Letters</i> , 2011, 6, 188.	3.1	104
9	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> , 2014, 77, 403-413.	4.5	90
10	Effect of temperature and sonication time on nanofluid thermal conductivity measurements by nano-flash method. <i>Applied Thermal Engineering</i> , 2015, 91, 181-190.	3.0	84
11	Understanding energy consumption and carbon emissions in Europe: A focus on inequality issues. <i>Energy</i> , 2019, 170, 120-130.	4.5	77
12	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.	3.1	76
13	Linear Regression Models to Forecast Electricity Consumption in Italy. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2013, 8, 86-93.	1.8	73
14	Experimental Investigation of Mixed Convection in a Channel With an Open Cavity. <i>Experimental Heat Transfer</i> , 2006, 19, 53-68.	2.3	60
15	Forced convection enhancement in channels with transversal ribs and nanofluids. <i>Applied Thermal Engineering</i> , 2016, 98, 1044-1053.	3.0	60
16	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.	2.9	59
17	Numerical Simulation of Water/Al <sub>2</sub> O <sub>3</sub> Nanofluid Turbulent Convection. <i>Advances in Mechanical Engineering</i> , 2010, 2, 976254.	0.8	41
18	Numerical investigation of transient thermal and fluiddynamic fields in an executive aircraft cabin. <i>Applied Thermal Engineering</i> , 2009, 29, 3418-3425.	3.0	38

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation of Opposing Mixed Convection in a Channel with an open Cavity Below. <i>Experimental Heat Transfer</i> , 2008, 21, 99-114.	2.3	30
20	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.	2.5	29
21	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.	1.2	29
22	Thermal Design of Uniformly Heated Inclined Channels in Natural Convection with and without Radiative Effects. <i>Heat Transfer Engineering</i> , 2001, 22, 13-28.	1.2	28
23	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.	1.6	28
24	Evaluation of thermal and fluid dynamic performance parameters in aluminum foam compact heat exchangers. <i>Applied Thermal Engineering</i> , 2020, 176, 115456.	3.0	27
25	Radiative effects on natural convection in vertical convergent channels. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3513-3524.	2.5	22
26	Second Law Analysis of $Al_2O_3$ -Water Nanofluid Turbulent Forced Convection in a Circular Cross Section Tube with Constant Wall Temperature. <i>Advances in Mechanical Engineering</i> , 2013, 5, 920278.	0.8	22
27	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.	2.5	21
28	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.	2.9	20
29	Numerical Analysis of Water Forced Convection in Channels with Differently Shaped Transverse Ribs. <i>Journal of Applied Mathematics</i> , 2011, 2011, 1-25.	0.4	20
30	Experimental and Numerical Investigation on Forced Convection in Circular Tubes With Nanofluids. <i>Heat Transfer Engineering</i> , 2016, 37, 1201-1210.	1.2	20
31	Composite Correlations for Air Natural Convection in Tilted Channels. <i>Heat Transfer Engineering</i> , 1999, 20, 64-72.	1.2	18
32	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.	1.3	18
33	Thermal design of symmetrically and asymmetrically heated channel "chimney systems in natural convection. <i>Applied Thermal Engineering</i> , 2003, 23, 605-621.	3.0	17
34	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.	1.2	17
35	Experimental Analysis of Thermal Instability in Natural Convection Between Horizontal Parallel Plates Uniformly Heated. <i>Journal of Heat Transfer</i> , 2000, 122, 50-57.	1.2	16
36	Numerical investigation of an inclined rectangular cavity for ventilated roofs applications. <i>Thermal Science and Engineering Progress</i> , 2018, 6, 426-435.	1.3	14

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37	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.	1.2	12
38	Transient Heat Conduction in Solids Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 0, 283-286, 358-363.	0.4	12
39	Numerical Study of Laminar Confined Impinging Slot Jets with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012, 4, 248795.	0.8	12
40	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.	2.9	12
41	Thermal design and optimization of vertical convergent channels in natural convection. <i>Applied Thermal Engineering</i> , 2006, 26, 170-177.	3.0	11
42	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.	2.5	11
43	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.	0.3	11
44	An Analysis of the Electricity Sector in Romania. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2014, 9, 149-155.	1.8	10
45	Experimental Evaluation of Fluid Dynamic and Thermal Behaviors in Compact Heat Exchanger with Aluminum Foam. <i>Energy Procedia</i> , 2016, 101, 1103-1110.	1.8	10
46	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.	1.8	10
47	Numerical investigation on aluminum foam application in a tubular heat exchanger. <i>Heat and Mass Transfer</i> , 2018, 54, 2589-2597.	1.2	10
48	Numerical Investigation on Mixed Convection in Triangular Cross-Section Ducts with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012, 4, 139370.	0.8	10
49	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.	0.3	10
50	Numerical investigation of convective-radiative heat transfer in a building-integrated solar chimney. <i>Advances in Building Energy Research</i> , 2015, 9, 253-266.	1.1	9
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.	1.8	9
52	Two Dimensional Transient Analysis of Temperature Distribution in a Solid Irradiated by a Gaussian Laser Source. , 2004, , 217.		8
53	Experimental Investigation of Radiation Effects on Natural Convection in Horizontal Channels Heated From Above. <i>Journal of Heat Transfer</i> , 2009, 131, .	1.2	8
54	Confined Impinging Jets in Porous Media. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032142.	0.3	8

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55	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.	1.7	8
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.	1.6	7
57	Numerical Study of Transient Natural Convection in Air in Vertical Divergent Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011, 60, 580-603.	1.2	7
58	Thermal behavior evaluation of ventilated roof under variable solar radiation. <i>International Journal of Heat and Technology</i> , 2016, 34, S346-S350.	0.3	7
59	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.	0.8	6
60	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	6
61	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.	1.8	6
62	NUMERICAL STUDY OF AIR FORCED CONVECTION IN A CHANNEL PROVIDED WITH INCLINED RIBS. <i>Frontiers in Heat and Mass Transfer</i> , 2011, 2, .	0.1	6
63	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.	0.4	5
64	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	5
65	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.	1.8	5
66	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
67	Local Thermal Non-Equilibrium in Mixed Convection in Channels Partially Heated at Uniform Heat Flux Filled With a Porous Medium. , 2014, , .		4
68	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	4
69	Thermal behavior evaluation of ventilated roof under summer and winter conditions. <i>International Journal of Heat and Technology</i> , 2017, 35, S353-S360.	0.3	4
70	Numerical investigation of sensible thermal energy storage in high temperature solar systems. <i>WIT Transactions on Modelling and Simulation</i> , 2009, , .	0.0	4
71	Transient Simulation of a Solar Cooling System for an Agro-Industrial Application. <i>Energy Procedia</i> , 2018, 148, 328-335.	1.8	3
72	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.	0.3	3

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73	Numerical investigation of transient single phase forced convection of nanofluids in circular tubes. WIT Transactions on Engineering Sciences, 2008, , .	0.0	3
74	An Experimental Study of Radiative Effects on Natural Convection in Air in Convergent Channels. , 2003, , 189.		2
75	Numerical Investigation on Thermal Behaviors of an Inclined Ventilated Roof. , 2014, , .		2
76	A Numerical Analysis on a Compact Heat Exchanger in Aluminum Foam. Journal of Physics: Conference Series, 2016, 745, 032141.	0.3	2
77	Numerical investigation on forced convection in rectangular cross section micro-channels with nanofluids. Journal of Physics: Conference Series, 2017, 796, 012013.	0.3	2
78	Visualization of Natural Convection in Inclined Heated Parallel Plates. , 1997, , 283-292.		2
79	Experimental Investigation on Mixed Convection in Horizontal Channels Heated Below and Partially Filled with Aluminium Foam. , 2014, , .		2
80	Experimental Investigation on the Effect of Longitudinal Aspect Ratio on Natural Convection in Inclined Channels Heated Below. , 2006, , 337.		1
81	A Two-Dimensional Numerical Investigation on Forced Convection in Channels With Transversal Ribs. , 2009, , .		1
82	Impinging Jet on a Concave Surface for Aircraft Anti-Icing. , 2009, , .		1
83	Thermal and Fluid Dynamic Analysis on Impinging Jet for Aircraft Anti-Icing. , 2010, , .		1
84	Numerical Study on Mixed Convection in Porous Media in a Channel With an Open Cavity Below. , 2010, , .		1
85	Effect of Impinging Jet on Heat Conduction in Workpieces Irradiated by a Moving Heat Source. Defect and Diffusion Forum, 2011, 312-315, 924-928.	0.4	1
86	Numerical Simulation of Convective-Radiative Heat Transfer in a Solar Chimney. , 2014, , .		1
87	Advanced approaches of modeling and measurement for turbulence and heat transfer. Advances in Mechanical Engineering, 2016, 8, 168781401666374.	0.8	1
88	Nanofluid Impinging Jets in Porous Media. , 2016, 7, 84-113.		1
89	A Numerical and Experimental Investigation on Impinging Round Jets in Channel Partially Filled With Porous Media. , 2017, , .		1
90	Selected Papers from the ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization, and the Environment. Heat Transfer Engineering, 2018, 39, 195-197.	1.2	1

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91	Numerical study on latent thermal energy storages with PCM partially filled with aluminium foam. Journal of Physics: Conference Series, 2019, 1224, 012039.	0.3	1
92	A NUMERICAL AND EXPERIMENTAL ANALYSIS ON CONFINED IMPINGING ROUND JETS IN POROUS MEDIA. , 2017, , .		1
93	VISUALIZATION OF FLOW STRUCTURES IN NATURAL CONVECTION BETWEEN HORIZONTAL UNIFORMLY HEATED PARALLEL PLATES. Journal of Flow Visualization and Image Processing, 2000, 7, 13.	0.3	1
94	Feasibility Study of Solar Cooling Thermally Driven System Configurations for an Office Building in Mediterranean Area. International Journal of Heat and Technology, 2016, 34, S472-S480.	0.3	1
95	Geothermal energy application in Campi Flegrei Area: The case study of a swimming pool building. International Journal of Heat and Technology, 2017, 35, S102-S107.	0.3	1
96	THERMAL AND FLUID DYNAMIC ANALYSIS OF SOLAR CHIMNEY BUILDING SYSTEMS. International Journal of Heat and Technology, 2013, 31, 119-126.	0.3	1
97	Surface periodic on-off heat flux over a semi-infinite body. International Communications in Heat and Mass Transfer, 1990, 17, 125-134.	2.9	0
98	Radiation Effects on Natural Convection in Air in a Divergent Channel With Uniformly Heated Plates. , 2003, , 269.		0
99	Experimental Investigation on Mixed Convection in a Channel With an Open Cavity Below. , 2003, , 257.		0
100	Thermal Design of Uniformly Heated Vertical Convergent Channels in Natural Convection in Air. , 2004, , 237.		0
101	Experimental Analysis of Opposing Flow in Mixed Convection in a Channel With an Open Cavity Below. , 2005, , 617.		0
102	Numerical Investigation of Forced Convection of Nanofluids in Circular Tubes. , 2007, , 839.		0
103	Numerical Investigation on Mixed Convection in a Horizontal Channel Heated From Below. , 2007, , 535.		0
104	Numerical Investigation of Forced Convection of Nanofluids in Channels. , 2008, , .		0
105	Numerical Investigation of Air Forced Convection in Channels With Transverse Ribs. , 2008, , .		0
106	Transient Natural Convection in Convergent Vertical Channels With Porous Media. , 2008, , .		0
107	Numerical Investigation of Turbulent Convection in Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid With Temperature Dependent Properties. , 2009, , .		0
108	Transient Mixed Convection In Channels Partially Heated Filled With A Porous Medium In Non-Local Thermal Equilibrium. , 2010, , .		0

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109	Natural Convection in Vertical Channels with Porous Media and Adiabatic Extensions. Defect and Diffusion Forum, 2010, 297-301, 1432-1438.	0.4	0
110	Numerical Study of Air Forced Convection in a Rectangular Channel Provided With Ribs. , 2010, , .		0
111	A Numerical Investigation on Nanofluids Forced Convection in Channels With Transverse Ribs. , 2010, , .		0
112	Numerical Simulation of Transient Temperature Fields in Solids Irradiated by Moving Gaussian and Donut Sources. Defect and Diffusion Forum, 0, 312-315, 959-964.	0.4	0
113	Numerical Investigation on Nanofluid Mixed Convection in Triangular Ducts Heated by a Uniform Heat Flux. , 2012, , .		0
114	Enhancement of Forced Convection in Ribbed Channels by Nanofluids. , 2012, , .		0
115	A Numerical Investigation on Nanofluid Laminar Mixed Convection in Confined Impinging Jets. , 2013, , .		0
116	Experimental Investigation on Mixed Convection in Horizontal Channels Heated Below and Partially Filled With Aluminum Foam. , 2013, , .		0
117	Effects of High Reynolds Number Impinging Jet on the Heat Conduction in Work-Pieces Irradiated by a Moving Heat Source. Defect and Diffusion Forum, 0, 354, 189-194.	0.4	0
118	Numerical Investigation on Thermal and Fluid Dynamic Behavior of Laminar Slot-Jet Impinging on a Surface at Uniform Heat Flux in a Confined Porous Medium in Local Thermal Non-Equilibrium Conditions. , 2014, , .		0
119	Experimental Investigation on Compact Heat Exchanger in Aluminum Foam. , 2015, , .		0
120	Editorial to special issue on advances in heat transfer enhancement. Advances in Mechanical Engineering, 2015, 7, 168781401560237.	0.8	0
121	Experimental and Numerical Investigation on Mixed Convection in Horizontal Channels Partially Filled With Aluminum Foam and Heated From Below. , 2016, , .		0
122	Numerical Investigation on a Latent Thermal Energy Storage With Aluminum Foam. , 2016, , .		0
123	Experimental and Numerical Investigation on Natural Convection in Horizontal Channels Partially Filled With Aluminium Foam and Heated From Below. , 2016, , .		0
124	Numerical Investigation on a Modified "Piccolo Tube" System in Aircraft Anti-Icing. , 2017, , .		0
125	Numerical investigation on laminar round-jet impinging on a surface at uniform heat flux in a channel partially filled with a porous medium. Journal of Physics: Conference Series, 2017, 796, 012012.	0.3	0
126	Experimental Investigation on Heat Transfer Enhancement by Transversal Ribs in Channels. , 2017, , .		0



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127	Selected Papers from the AIGE 2016 Conference on Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems. Heat Transfer Engineering, 2020, 41, 1011-1013.	1.2	0
128	Effect of Wall Conduction on Natural Convection in Symmetrically Heated Vertical Parallel Plates With Discrete Heat Sources. , 2002, , .		0
129	Plate distance effect on mixed convection in horizontal channels heated from below. WIT Transactions on Modelling and Simulation, 2007, , .	0.0	0
130	Numerical investigation of natural convection of air in vertical divergent channels. WIT Transactions on Engineering Sciences, 2008, , .	0.0	0
131	Numerical Analysis on the Effects of Transversal Ribs on Forced Convection in Channels. , 2009, , .		0
132	Numerical Investigation on the Effect of Transversal Septa on Forced Convection in Circular Tubes. , 2009, , .		0
133	Natural and mixed convection in inclined channels with partial openings. , 2009, , .		0