

# Ivette Rodríguez

## List of Publications by Year in descending order

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76  
papers

2,010  
citations

218677

26  
h-index

243625

44  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1678  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Flow and Passive Noise Control of an Open Cavity at $Re = 5000$ . <i>Flow, Turbulence and Combustion</i> , 2022, 108, 123-148.	2.6	1
2	On the effects of the free-stream turbulence on the heat transfer from a sphere. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120579.	4.8	9
3	Perspective on integration of concentrated solar power plants. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 1098-1125.	2.6	20
4	Flow topology and heat transfer analysis of slotted and axisymmetric synthetic impinging jets. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106847.	4.9	7
5	Vortex induced vibrations of a pivoted finite height cylinder at low Reynolds number. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
6	On the Characteristics of the Super-Critical Wake behind a Circular Cylinder. <i>Fluids</i> , 2021, 6, 396.	1.7	3
7	Thermo-economic and environmental analysis of integrating renewable energy sources in a district heating and cooling network. <i>Energy Efficiency</i> , 2020, 13, 79-100.	2.8	17
8	Analyzing the Performance of a Miniature 3D Wind Sensor for Mars. <i>Sensors</i> , 2020, 20, 5912.	3.8	3
9	Effects of the Actuation on the Boundary Layer of an Airfoil at Reynolds Number $Re = 60000$ . <i>Flow, Turbulence and Combustion</i> , 2020, 105, 607-626.	2.6	14
10	Active flow control for external aerodynamics: from micro air vehicles to a full aircraft in stall. <i>Journal of Physics: Conference Series</i> , 2020, 1522, 012017.	0.4	5
11	On the formation of Taylor-Görtler structures in the vortex induced vibration phenomenon. <i>International Journal of Heat and Fluid Flow</i> , 2020, 83, 108573.	2.4	4
12	Effect of the Actuation on the Boundary Layer of an Airfoil at Moderate Reynolds Number. <i>ERCOFTAC Series</i> , 2020, , 313-319.	0.1	0
13	Wakes and Instabilities of Static and Freely Vibrating Cylinders. <i>ERCOFTAC Series</i> , 2020, , 49-59.	0.1	0
14	A review study on the modeling of high-temperature solar thermal collector systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 280-298.	16.4	77
15	A low-dissipation finite element scheme for scale resolving simulations of turbulent flows. <i>Journal of Computational Physics</i> , 2019, 390, 51-65.	3.8	60
16	Fluid dynamics and heat transfer in the wake of a sphere. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 141-153.	2.4	19
17	Numerical study of heat transfer from a synthetic impinging jet with a detailed model of the actuator membrane. <i>International Journal of Thermal Sciences</i> , 2019, 136, 287-298.	4.9	10
18	Large-eddy simulations of the vortex-induced vibration of a low mass ratio two-degree-of-freedom circular cylinder at subcritical Reynolds numbers. <i>Computers and Fluids</i> , 2018, 173, 118-132.	2.5	40

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19	Thermo-hydraulic analysis and numerical simulation of a parabolic trough solar collector for direct steam generation. Applied Energy, 2018, 214, 152-165.	10.1	40
20	Coherent Structures in a Flow Past a Circular Cylinder at Critical and Super-Critical Reynolds Numbers. ERCOFTAC Series, 2018, , 257-262.	0.1	0
21	Three dimensionality in the wake of the flow around a circular cylinder at Reynolds number 5000. Computers and Fluids, 2017, 147, 102-118.	2.5	33
22	LES-based Study of the Roughness Effects on the Wake of a Circular Cylinder from Subcritical to Transcritical Reynolds Numbers. Flow, Turbulence and Combustion, 2017, 99, 729-763.	2.6	16
23	Corrigendum to "Three dimensionality in the wake of the flow around a circular cylinder at Reynolds number 5000" [Computers and Fluids 147 (2017) 102-118]. Computers and Fluids, 2017, 156, 545.	2.5	0
24	Techno-economic performance evaluation of solar tower plants with integrated multi-layered PCM thermocline thermal energy storage " A comparative study to conventional two-tank storage systems. AIP Conference Proceedings, 2016, , .	0.4	4
25	Numerical simulation of roughness effects on the flow past a circular cylinder. Journal of Physics: Conference Series, 2016, 745, 032043.	0.4	6
26	Optimising the Termofluids CFD code for petascale simulations. International Journal of Computational Fluid Dynamics, 2016, 30, 425-430.	1.2	10
27	On the flow past a circular cylinder from critical to super-critical Reynolds numbers: Wake topology and vortex shedding. International Journal of Heat and Fluid Flow, 2015, 55, 91-103.	2.4	78
28	Multi-layered solid-PCM thermocline thermal storage concept for CSP plants. Numerical analysis and perspectives. Applied Energy, 2015, 142, 337-351.	10.1	81
29	Thermal Analysis of a Receiver for Linear Fresnel Reflectors. Energy Procedia, 2015, 69, 405-414.	1.8	3
30	Multi-layered solid-PCM thermocline thermal storage for CSP. Numerical evaluation of its application in a 50MWe plant. Solar Energy, 2015, 119, 134-150.	6.1	49
31	Parametric Study of Two-tank TES Systems for CSP Plants. Energy Procedia, 2015, 69, 1049-1058.	1.8	23
32	Numerical Evaluation of Multi-layered Solid-PCM Thermocline-like Tanks as Thermal Energy Storage Systems for CSP Applications. Energy Procedia, 2015, 69, 832-841.	1.8	18
33	Influence of rotation on the flow over a cylinder at Re = 5000. International Journal of Heat and Fluid Flow, 2015, 55, 76-90.	2.4	31
34	A dynamic wall model for large eddy simulation on unstructured meshes. Application to wind turbine dedicated airfoils. , 2015, , .		0
35	Non-Oberbeck-Boussinesq effects in a turbulent tall water-filled differentially heated cavity. , 2015, , .		0
36	Unsteady forces on a circular cylinder at critical Reynolds numbers. Physics of Fluids, 2014, 26, .	4.0	77

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37	Limits of the Oberbeck-Boussinesq approximation in a tall differentially heated cavity filled with water. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 489-499.	4.8	36
38	Flow and turbulent structures around simplified car models. <i>Computers and Fluids</i> , 2014, 96, 122-135.	2.5	63
39	Large eddy and direct numerical simulations of a turbulent water-filled differentially heated cavity of aspect ratio 5. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 1084-1094.	4.8	21
40	On the CFD&HT of the Flow around a Parabolic Trough Solar Collector under Real Working Conditions. <i>Energy Procedia</i> , 2014, 49, 1379-1390.	1.8	19
41	A New Thermocline-PCM Thermal Storage Concept for CSP Plants. <i>Numerical Analysis and Perspectives. Energy Procedia</i> , 2014, 49, 790-799.	1.8	28
42	Wind speed effect on the flow field and heat transfer around a parabolic trough solar collector. <i>Applied Energy</i> , 2014, 130, 200-211.	10.1	25
43	Large-Eddy Simulations of Wind Turbine Dedicated Airfoils at High Reynolds Numbers. <i>Research Topics in Wind Energy</i> , 2014, , 147-152.	0.2	3
44	Modular object-oriented methodology for the resolution of molten salt storage tanks for CSP plants. <i>Applied Energy</i> , 2013, 109, 402-414.	10.1	41
45	Flow dynamics in the turbulent wake of a sphere at sub-critical Reynolds numbers. <i>Computers and Fluids</i> , 2013, 80, 233-243.	2.5	41
46	On the large-eddy simulations for the flow around aerodynamic profiles using unstructured grids. <i>Computers and Fluids</i> , 2013, 84, 176-189.	2.5	37
47	Low-frequency unsteadiness in the vortex formation region of a circular cylinder. <i>Physics of Fluids</i> , 2013, 25, .	4.0	106
48	Heat transfer analysis and numerical simulation of a parabolic trough solar collector. <i>Applied Energy</i> , 2013, 111, 581-592.	10.1	218
49	Improved semi-analytical method for air curtains prediction. <i>Energy and Buildings</i> , 2013, 66, 258-266.	6.7	19
50	Parallel sweep-based preconditioner for the solution of the linear Boltzmann transport equation. <i>Computers and Fluids</i> , 2013, 88, 884-890.	2.5	1
51	Direct numerical simulation of a NACA0012 in full stall. <i>International Journal of Heat and Fluid Flow</i> , 2013, 43, 194-203.	2.4	59
52	High Performance Computing of the Flow Past a Circular Cylinder at Critical and Supercritical Reynolds Numbers. <i>Procedia Engineering</i> , 2013, 61, 166-172.	1.2	15
53	Numerical simulation of wind flow around a parabolic trough solar collector. <i>Applied Energy</i> , 2013, 107, 426-437.	10.1	60
54	Parallel algorithms for transport sweeps on unstructured meshes. <i>Journal of Computational Physics</i> , 2013, 232, 118-135.	3.8	29

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55	On the validity of the Oberbeck-Boussinesq approximation in a tall differentially heated cavity with water. <i>Progress in Computational Fluid Dynamics</i> , 2012, 12, 251.	0.2	1
56	Assessment of the symmetry-preserving regularization model on complex flows using unstructured grids. <i>Computers and Fluids</i> , 2012, 60, 108-116.	2.5	17
57	Numerical resolution of the liquid-vapour two-phase flow by means of the two-fluid model and a pressure based method. <i>International Journal of Multiphase Flow</i> , 2012, 43, 118-130.	3.4	24
58	On the Large-Eddy Simulation modelling of wind turbine dedicated airfoils at high Reynolds numbers. , 2012, , .		2
59	Low-frequency unsteadiness in the vortex formation region of a circular cylinder. , 2012, , .		0
60	Solid-liquid phase change with turbulent flow. , 2012, , .		0
61	Low-frequency variations in the wake of a circular cylinder at $Re = 3900$ . <i>Journal of Physics: Conference Series</i> , 2011, 318, 042038.	0.4	4
62	Direct numerical simulation of the flow over a sphere at $Re = 3700$ . <i>Journal of Fluid Mechanics</i> , 2011, 679, 263-287.	3.4	127
63	Direct numerical simulation of the flow over a sphere at $Re = 3700$ - CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2011, 687, 606-606.	3.4	0
64	On DNS and LES of natural convection of wall-confined flows: Rayleigh-Bénard convection. <i>ERCOFTAC Series</i> , 2011, , 389-394.	0.1	3
65	Energy Simulation of Buildings with a Modular Object-Oriented Tool. , 2011, , .		4
66	Development of a Multi-Functional Ventilated Façade with an Integrated Collector-Storage: Numerical Model and Experimental Facility. , 2011, , .		0
67	Numerical Simulation of a Parabolic Trough Solar Collector Considering the Concentrated Energy Flux Distribution. , 2011, , .		0
68	Unsteady natural convection cooling of a water storage tank with an internal gas flue. <i>International Journal of Thermal Sciences</i> , 2010, 49, 36-47.	4.9	8
69	Numerical Study of the Transient Cooling Process of Water Storage Tanks under Heat Losses to the Environment. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009, 55, 1051-1074.	2.1	12
70	Unsteady numerical simulation of the cooling process of vertical storage tanks under laminar natural convection. <i>International Journal of Thermal Sciences</i> , 2009, 48, 708-721.	4.9	54
71	Comparison of the performance of falling film and bubble absorbers for air-cooled absorption systems. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1355-1366.	4.9	31
72	Direct Numerical Simulation of the flow over a sphere at $Re = 3700$ . , 2009, , .		3

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73	Numerical Study of Plane and Round Impinging Jets using RANS Models. Numerical Heat Transfer, Part B: Fundamentals, 2008, 54, 213-237.	0.9	78
74	Landing Mechanics During Sidestepping and Crossover Maneuvers in Non-Injured Women and Women With ACL Reconstruction. Medicine and Science in Sports and Exercise, 2008, 40, S446.	0.4	0
75	Neuromuscular Control During Sidestepping and Cross-Over Maneuvers Among Noninjured Women and Women With ACL Reconstruction. Medicine and Science in Sports and Exercise, 2008, 40, S445.	0.4	0
76	Virtual prototyping of storage tanks by means of three-dimensional CFD and heat transfer numerical simulations. Solar Energy, 2004, 77, 179-191.	6.1	53