Vinicio Magi

List of Publications by Citations

48 papers	574 citations	15 h-index	22 g-index
50 ext. papers	642 ext. citations	4.4 avg, IF	4.04 L-index

#	Paper	IF	Citations
48	A 2-D investigation of n-heptane autoignition by means ofBdirect numerical simulation. *Combustion and Flame*, **2004**, 137, 432-443	5.3	53
47	A comprehensive investigation on the emissions of ethanol HCCI engines. *Applied Energy*, **2012**, 93, 277-287	5.7	52
46	Large-eddy simulation in the near-field of a transient multi-component gas jet with density gradients. *Computers and Fluids*, **2007**, 36, 1609-1620	2.8	35
45	Streamtube model for analysis of vertical axis variable pitch turbine for marine currents energy conversion. *Energy Conversion and Management*, **2000**, 41, 1811-1827	10.6	33
44	A Numerical Analysis of Hydrogen Underexpanded Jets Under Real Gas Assumption. *Journal of Fluids Engineering, Transactions of the ASME*, **2013**, 135,	2.1	31
43	APPLICATION OF THE DISCRETE ORDINATES METHOD TO COMPUTE RADIANT HEAT LOSS IN A DIESEL ENGINE. *Numerical Heat Transfer; Part A: Applications*, **1997**, 31, 597-610	2.3	30
42	Exploring injected droplet size effects on steady liquid penetration in a Diesel spray with a two-fluid model. *International Journal of Heat and Mass Transfer*, **2002**, 45, 519-531	4.9	30
41	Transient deformation and drag of decelerating drops in axisymmetric flows. *Physics of Fluids*, **2007** , 19, 113301	4.4	27
40	Turbulent Flame Speed Dependencies in Lean Methane-Air Mixtures under Engine Relevant Conditions. *Combustion and Flame*, **2017**, 180, 53-62	5.3	24
39	A genetic optimization of a hybrid organic Rankine plant for solar and low-grade energy sources. *Energy*, **2015**, 91, 807-815	7.9	23
38	THE k-□MODEL AND COMPUTED SPREADING RATES IN ROUND AND PLANE JETS. *Numerical Heat Transfer; Part A: Applications*, **2001**, 40, 317-334	2.3	22
37	Exploring Velocity and Density Ratio Effects in a Mixing Layer Using DNS. *International Journal of Computational Fluid Dynamics*, **1997**, 8, 147-151	1.2	20
36	Interactions of hydrogen flames with walls: Influence of wall temperature, pressure, equivalence ratio, and diluents. *International Journal of Hydrogen Energy*, **2007**, 32, 2094-2104	6.7	20
35	Computations of Transient Jets: RNG k-e Model Versus Standard k-e Model **1997**,		18
34	How does a high density ratio affect the near- and intermediate-field of high-Re hydrogen jets?. *International Journal of Hydrogen Energy*, **2016**, 41, 15007-15025	6.7	16
33	Dynamic Adaptive Chemistry applied to homogeneous and partially stratified charge CI ethanol engines. *Applied Energy*, **2014**, 113, 848-863	10.7	13
32	On laminar flame speed correlations for H2/CO combustion in premixed spark ignition engines. *Applied Energy*, **2014**, 130, 166-180	10.7	13

31	Modeling Radiant Heat Loss Characteristics in a Diesel Engine **1997**,		10
30	Fuel-Air Mixing Characteristics of DI Hydrogen Jets. *SAE International Journal of Engines*, **2008**, 1, 693-712	2.4	10
29	A Computational Investigation of the Interaction of Pulses in Two-Pulse Jets. *Numerical Heat Transfer; Part A: Applications*, **2008**, 54, 999-1021	2.3	8
28	A numerical study of thermal and chemical effects in interactions of n-heptane flames with a single surface. *Combustion and Flame*, **2007**, 148, 127-147	5.3	8
27	Multidimensional Simulation of Ethanol HCCI Engines **2009**,		7
26	Hybrid Compressible-Incompressible Numerical Method for Transient Drop-Gas Flows. *AIAA Journal* , **2005**, 43, 1974-1983	2.1	7
25	Modeling Soot Formation in Turbulent Jet Flames at Atmospheric and High-Pressure Conditions. *Energy & Fuels*, **2018**, 32, 8857-8867	4.1	6
24	An Investigation on the Performance of Partially Stratified Charge CI Ethanol Engines **2011**,		6
23	On the simplification of kinetic reaction mechanisms of air–ethanol under high pressure conditions. *Fuel*, **2013**, 104, 488-499	7.1	5
22	Enhancing the Performance of a Parallel Solver for Turbulent Reacting Flow Simulations. *Numerical Heat Transfer, Part B: Fundamentals*, **2011**, 59, 169-189	1.3	5
21	Wall Interactions of Hydrogen Flames Compared with Hydrocarbon Flames **2007**,		5
20	Preliminary design of a hypersonic air-breathing vehicle **2011**,		4
19	Dataset of working conditions and thermo-economic performances for hybrid organic Rankine plants fed by solar and low-grade energy sources. *Data in Brief*, **2016**, 7, 648-53	1.2	4
18	Lattice-Boltzmann simulations of flow past stationary particles in a channel. *Numerical Heat Transfer; Part A: Applications*, **2019**, 76, 281-300	2.3	3
17	Entrainment Characteristics of Sprays for Diesel and DISI Applications **1998**,		3
16	On the Turbulence-Chemistry Interaction of an HCCI Combustion Engine. *Energies*, **2020**, 13, 5876	3.1	3
15	High-speed turbulent gas jets: an LES investigation of Mach and Reynolds number effects on the velocity decay and spreading rate. *Flow, Turbulence and Combustion*, **2021**, 107, 519-550	2.5	3
14	An evaluation of the assumptions of the flamelet model for diesel combustion modeling. *Chemical Engineering Science*, **2015**, 138, 403-413	4.4	2

13	Dynamic analysis of HVAC for industrial plants with different airflow control systems. *Thermal Science and Engineering Progress*, **2018**, 6, 330-345	3.6	2
12	A Numerical Analysis of Hydrogen Underexpanded Jets **2012**,		2
11	A Study of Flame-Vortex Interactions in the Presence of Residual Gases. *Combustion Science and Technology*, **2008**, 180, 1395-1420	1.5	2
10	A Comparison of Mixing-Controlled and Flamelet Models for Diesel Combustion **2002**,		2
9	An implicit Lambda method for 2-D viscous compressible flows **1995**, 259-264		2
8	Liquid-Cooling System of an Aircraft Compression Ignition Engine: A CFD Analysis. *Fluids*, **2020**, 5, 71	1.6	1
7	Large eddy simulation of high-density ratio hydrogen jets **2013**,		1
6	Numerical Simulations of an Ethanol Partially Stratified Charge CI Engine With Adaptively Reduced Kinetic Mechanisms **2012**,		1
5	Some numerical considerations in the simulation of low-Ma number hydrogen/air mixing layers. *International Journal of Hydrogen Energy*, **2010**, 35, 12936-12944	6.7	1
4	A Comprehensive Numerical Analysis of the Scavenging Process in a Uniflow Two-Stroke Diesel Engine for General Aviation. *Energies*, **2021**, 14, 7361	3.1	1
3	On Direct Injection of Supercritical Water into Spark Ignition Engines as a Strategy for Heat Recovery. *Energy Technology*, **2021**, 9, 2100198	3.5	0
2	A numerical investigation on the laminar flame speed of methane/air and iso-octane/air mixtures with ozone addition. *Combustion and Flame*, **2022**, 241, 112145	5.3	0
1	Petrov□alerkin finite element stabilization for two-phase flows. *International Journal for Numerical Methods in Fluids*, **2006**, 51, 1117-1129	1.9	