

# Massimiliano Renzi

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,248  
citations

236925

25  
h-index

233421

45  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microglia control glutamatergic synapses in the adult mouse hippocampus. <i>Glia</i> , 2022, 70, 173-195.	4.9	46
2	Evidence of a dual mechanism of action underlying the anti-proliferative and cytotoxic effects of ammonium-alkyloxy-stilbene-based $\alpha$ 7- and $\alpha$ 9-nicotinic ligands on glioblastoma cells. <i>Pharmacological Research</i> , 2022, 175, 105959.	7.1	9
3	Early derailment of firing properties in CA1 pyramidal cells of the ventral hippocampus in an Alzheimer's disease mouse model. <i>Experimental Neurology</i> , 2022, 350, 113969.	4.1	16
4	Feasibility Evaluation of Hybrid Electric Agricultural Tractors Based on Life Cycle Cost Analysis. <i>IEEE Access</i> , 2022, 10, 28853-28867.	4.2	14
5	Experimental Investigation and RSM Modeling of the Effects of Injection Timing on the Performance and NOx Emissions of a Micro-Cogeneration Unit Fueled with Biodiesel Blends. <i>Energies</i> , 2022, 15, 3586.	3.1	6
6	Torque Prediction Model of a CI Engine for Agricultural Purposes Based on Exhaust Gas Temperatures and CFD-FVM Methodologies Validated with Experimental Tests. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3892.	2.5	3
7	Experimental problem of indirectly detecting engine torque delivered by agricultural machines through exhaust gas temperature. , 2021, , .		0
8	Resilience to anhedonia-passive coping induced by early life experience is linked to a long-lasting reduction of Ih current in VTA dopaminergic neurons. <i>Neurobiology of Stress</i> , 2021, 14, 100324.	4.0	9
9	Unit commitment optimization of a micro-grid with a MILP algorithm: Role of the emissions, bio-fuels and power generation technology. <i>Energy Reports</i> , 2021, 7, 8639-8651.	5.1	17
10	Complementing Syngas with Natural Gas in Spark Ignition Engines for Power Production: Effects on Emissions and Combustion. <i>Energies</i> , 2021, 14, 3688.	3.1	14
11	The kinematic viscosity of conventional and bio-based fuel blends as a key parameter to indirectly estimate the performance of compression-ignition engines for agricultural purposes. <i>Fuel</i> , 2021, 298, 120817.	6.4	8
12	Towards a High Order Convergent ALE-SPH Scheme with Efficient WENO Spatial Reconstruction. <i>Water (Switzerland)</i> , 2021, 13, 2432.	2.7	10
13	Diesel fuel substitution using forestry biomass producer gas: Effects of dual fuel combustion on performance and emissions of a micro-CHP system. <i>Journal of the Energy Institute</i> , 2021, 98, 334-345.	5.3	8
14	An electro-thermal model and its electrical parameters estimation procedure in a lithium-ion battery cell. <i>Energy</i> , 2021, 234, 121296.	8.8	27
15	A methodology to estimate average flow rates in Water Supply Systems (WSSs) for energy recovery purposes through hydropower solutions. <i>Renewable Energy</i> , 2021, 180, 1101-1113.	8.9	2
16	Injection and Combustion Analysis of Pure Rapeseed Oil Methyl Ester (RME) in a Pump-Line-Nozzle Fuel Injection System. <i>Energies</i> , 2021, 14, 7535.	3.1	2
17	Electrification of Agricultural Machinery: A Review. <i>IEEE Access</i> , 2021, 9, 164520-164541.	4.2	38
18	Modifications at C(5) of 2-(2-Pyrrolidinyl)-Substituted 1,4-Benzodioxane Elicit Potent $\alpha$ 4 $\beta$ 2 Nicotinic Acetylcholine Receptor Partial Agonism with High Selectivity over the $\alpha$ 3 $\beta$ 4 Subtype. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15668-15692.	6.4	12

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19	Proposal of a Predictive Mixed Experimental- Numerical Approach for Assessing the Performance of Farm Tractor Engines Fuelled with Diesel- Biodiesel-Bioethanol Blends. <i>Energies</i> , 2019, 12, 2287.	3.1	16
20	Biocompatibility of silicon nanowires: A step towards IC detectors. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
21	Experimental analysis of a small-scale scroll expander for low-temperature waste heat recovery in Organic Rankine Cycle. <i>Energy</i> , 2019, 187, 115929.	8.8	37
22	Silicon nanowires to detect electric signals from living cells. <i>Materials Research Express</i> , 2019, 6, 084005.	1.6	9
23	Experimental investigation on the effects of bioethanol addition in diesel-biodiesel blends on emissions and performances of a micro-cogeneration system. <i>Energy Conversion and Management</i> , 2019, 185, 55-65.	9.2	35
24	Speed and Pressure Controls of Pumps-as-Turbines Installed in Branch of Water-Distribution Network Subjected to Highly Variable Flow Rates. <i>Energies</i> , 2019, 12, 4738.	3.1	22
25	Silicon Nanowires as Biocompatible Electronics-Biology Interface. , 2019, , .		5
26	Experimental investigation and numerical model validation of a 2.5 kWt concentrated solar thermal plant. <i>Applied Thermal Engineering</i> , 2018, 133, 622-632.	6.0	7
27	Modeling the emissions of a dual fuel engine coupled with a biomass gasifier” supplementing the Wiebe function. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35866-35873.	5.3	8
28	Coupling a small-scale concentrated solar power plant with a single effect thermal desalination system: Analysis of the performance. <i>Applied Thermal Engineering</i> , 2018, 143, 1046-1056.	6.0	19
29	Influence of the Syngas Feed on the Combustion Process and Performance of a Micro Gas Turbine with Steam Injection. <i>Energy Procedia</i> , 2017, 105, 1665-1670.	1.8	19
30	Performance Simulation of a Small-scale Heliostat CSP System: Case Studies in Italy. <i>Energy Procedia</i> , 2017, 105, 367-372.	1.8	4
31	Design and experimental test of refractive secondary optics on the electrical performance of a 3-junction cell used in CPV systems. <i>Applied Energy</i> , 2017, 185, 233-243.	10.1	21
32	Analytical Prediction Models for Evaluating Pumps-As-Turbines (PaTs) Performance. <i>Energy Procedia</i> , 2017, 118, 238-242.	1.8	22
33	Micro-Gas Turbine Feed With Natural Gas and Synthesis Gas: Variation of the Turbomachines™ Operative Conditions With and Without Steam Injection. , 2017, , .		3
34	Syngas feed of micro gas turbines with steam injection: Effects on performance, combustion and pollutants formation. <i>Applied Energy</i> , 2017, 206, 697-707.	10.1	35
35	Combustion modelling of a dual fuel diesel “ producer gas compression ignition engine. <i>Energy Procedia</i> , 2017, 142, 1395-1400.	1.8	20
36	Improving flexibility of industrial microgrids through thermal storage and HVAC management strategies. <i>Energy Procedia</i> , 2017, 142, 2728-2733.	1.8	9

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37	Pump-as-turbine for Energy Recovery Applications: The Case Study of An Aqueduct. Energy Procedia, 2016, 101, 1207-1214.	1.8	59
38	Energy efficiency improvement in oil refineries through flare gas recovery technique to meet the emission trading targets. Energy, 2016, 109, 1-12.	8.8	40
39	An experimental evaluation of the performance of a SI internal combustion engine for agricultural purposes fuelled with different bioethanol blends. Energy, 2016, 115, 1069-1080.	8.8	16
40	Comparison of different operation modes of a single effect thermal desalination plant using waste heat from m-CHP units. Applied Thermal Engineering, 2016, 100, 646-657.	6.0	20
41	Noise Enhances Action Potential Generation in Mouse Sensory Neurons via Stochastic Resonance. PLoS ONE, 2016, 11, e0160950.	2.5	19
42	Effect of the Secondary Optics and the Receiver Design on the Performance of a Triple Junction Solar Cell. Energy Procedia, 2015, 75, 355-360.	1.8	0
43	Monitoring of the energy performance of a district heating CHP plant based on biomass boiler and ORC generator. Applied Thermal Engineering, 2015, 79, 98-107.	6.0	64
44	Hybrid system with micro gas turbine and PV (photovoltaic) plant: Guidelines for sizing and management strategies. Energy, 2015, 89, 226-235.	8.8	26
45	Design and test of a single effect thermal desalination plant using waste heat from m-CHP units. Applied Thermal Engineering, 2015, 82, 18-29.	6.0	26
46	Limiting the Effect of Ambient Temperature on Micro Gas Turbines (MGTs) Performance Through Inlet Air Cooling (IAC) Techniques: An Experimental Comparison between Fogging and Direct Expansion. Energy Procedia, 2015, 75, 1172-1177.	1.8	8
47	Optimal sizing of hybrid solar micro-CHP systems for the household sector. Applied Thermal Engineering, 2015, 75, 896-907.	6.0	94
48	Modelling the Italian household sector at the municipal scale: Micro-CHP, renewables and energy efficiency. Energy, 2014, 68, 92-103.	8.8	40
49	Study and application of a regenerative Stirling cogeneration device based on biomass combustion. Applied Thermal Engineering, 2014, 67, 341-351.	6.0	52
50	CSP control system implementation on embedded board. , 2013, , .		3
51	Setting the Time Course of Inhibitory Synaptic Currents by Mixing Multiple GABAA Receptor $\hat{A}$ Subunit Isoforms. Journal of Neuroscience, 2012, 32, 5853-5867.	3.6	83
52	Cornichons Modify Channel Properties of Recombinant and Glial AMPA Receptors. Journal of Neuroscience, 2012, 32, 9796-9804.	3.6	86
53	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. Nature Neuroscience, 2011, 14, 1430-1438.	14.8	104
54	Functional Effects of Cornichon Proteins on Homomeric GluA1 AMPAR Single-Channels. Biophysical Journal, 2011, 100, 268a.	0.5	0

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55	Use of a test-bed to study the performance of micro gas turbines for cogeneration applications. Applied Thermal Engineering, 2011, 31, 3552-3558.	6.0	37
56	Profound Desensitization by Ambient GABA Limits Activation of $\hat{\Gamma}$ -Containing GABA <sub>A</sub> Receptors during Spillover. Journal of Neuroscience, 2011, 31, 753-763.	3.6	87
57	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, $\hat{\Gamma}$ <sup>3</sup> -5. Nature Neuroscience, 2009, 12, 277-285.	14.8	100
58	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. Nature Neuroscience, 2009, 12, 1042-1049.	14.8	268
59	Climbing fibre activation of NMDA receptors in Purkinje cells of adult mice. Journal of Physiology, 2007, 585, 91-101.	2.9	74
60	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. Nature Neuroscience, 2007, 10, 923-929.	14.8	108
61	Unliganded human mutant $\hat{\Gamma}$ <sup>7</sup> nicotinic receptors are modulated by Ca <sup>2+</sup> and trace levels of Zn <sup>2+</sup> . Neuropharmacology, 2004, 46, 727-733.	4.1	2
62	Fractional Ca <sup>2+</sup> current through human neuronal $\hat{\Gamma}$ <sup>7</sup> nicotinic acetylcholine receptors. Cell Calcium, 2003, 34, 205-209.	2.4	61
63	Microtransplantation of membranes from cultured cells to Xenopus oocytes: A method to study neurotransmitter receptors embedded in native lipids. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2896-2900.	7.1	49
64	Stimulation of chemokine CXCR4 induces synaptic depression of evoked parallel fibers inputs onto Purkinje neurons in mouse cerebellum. Journal of Neuroimmunology, 2002, 127, 30-36.	2.3	63
65	Altered outward-rectifying K <sup>+</sup> current reveals microglial activation induced by HIV-1 Tat protein. Glia, 2001, 33, 181-190.	4.9	28
66	Two different ionotropic receptors are activated by ATP in rat microglia. Journal of Physiology, 1999, 519, 723-736.	2.9	95