

Massimiliano Renzi

List of Publications by Year in descending order

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66
papers

2,248
citations

236925

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docs citations

69
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic inhibition of Purkinje cells mediates consolidation of vestibulo-cerebellar motor learning. <i>Nature Neuroscience</i> , 2009, 12, 1042-1049.	14.8	268
2	From synapse to behavior: rapid modulation of defined neuronal types with engineered GABAA receptors. <i>Nature Neuroscience</i> , 2007, 10, 923-929.	14.8	108
3	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. <i>Nature Neuroscience</i> , 2011, 14, 1430-1438.	14.8	104
4	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, $\hat{1}^3$ -5. <i>Nature Neuroscience</i> , 2009, 12, 277-285.	14.8	100
5	Two different ionotropic receptors are activated by ATP in rat microglia. <i>Journal of Physiology</i> , 1999, 519, 723-736.	2.9	95
6	Optimal sizing of hybrid solar micro-CHP systems for the household sector. <i>Applied Thermal Engineering</i> , 2015, 75, 896-907.	6.0	94
7	Profound Desensitization by Ambient GABA Limits Activation of $\hat{1}$ -Containing GABA _A Receptors during Spillover. <i>Journal of Neuroscience</i> , 2011, 31, 753-763.	3.6	87
8	Cornichons Modify Channel Properties of Recombinant and Glial AMPA Receptors. <i>Journal of Neuroscience</i> , 2012, 32, 9796-9804.	3.6	86
9	Setting the Time Course of Inhibitory Synaptic Currents by Mixing Multiple GABAA Receptor \hat{A} Subunit Isoforms. <i>Journal of Neuroscience</i> , 2012, 32, 5853-5867.	3.6	83
10	Climbing fibre activation of NMDA receptors in Purkinje cells of adult mice. <i>Journal of Physiology</i> , 2007, 585, 91-101.	2.9	74
11	Monitoring of the energy performance of a district heating CHP plant based on biomass boiler and ORC generator. <i>Applied Thermal Engineering</i> , 2015, 79, 98-107.	6.0	64
12	Stimulation of chemokine CXCR4 induces synaptic depression of evoked parallel fiber inputs onto Purkinje neurons in mouse cerebellum. <i>Journal of Neuroimmunology</i> , 2002, 127, 30-36.	2.3	63
13	Fractional Ca ²⁺ current through human neuronal $\hat{1}^7$ nicotinic acetylcholine receptors. <i>Cell Calcium</i> , 2003, 34, 205-209.	2.4	61
14	Pump-as-turbine for Energy Recovery Applications: The Case Study of An Aqueduct. <i>Energy Procedia</i> , 2016, 101, 1207-1214.	1.8	59
15	Study and application of a regenerative Stirling cogeneration device based on biomass combustion. <i>Applied Thermal Engineering</i> , 2014, 67, 341-351.	6.0	52
16	Microtransplantation of membranes from cultured cells to <i>Xenopus</i> oocytes: A method to study neurotransmitter receptors embedded in native lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2896-2900.	7.1	49
17	Microglia control glutamatergic synapses in the adult mouse hippocampus. <i>Glia</i> , 2022, 70, 173-195.	4.9	46
18	Modelling the Italian household sector at the municipal scale: Micro-CHP, renewables and energy efficiency. <i>Energy</i> , 2014, 68, 92-103.	8.8	40

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19	Energy efficiency improvement in oil refineries through flare gas recovery technique to meet the emission trading targets. <i>Energy</i> , 2016, 109, 1-12.	8.8	40
20	Electrification of Agricultural Machinery: A Review. <i>IEEE Access</i> , 2021, 9, 164520-164541.	4.2	38
21	Use of a test-bed to study the performance of micro gas turbines for cogeneration applications. <i>Applied Thermal Engineering</i> , 2011, 31, 3552-3558.	6.0	37
22	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
23	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
24	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
25	Altered outward-rectifying K ⁺ current reveals microglial activation induced by HIV-1 Tat protein. <i>Glia</i> , 2001, 33, 181-190.	4.9	28
26	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
27	Hybrid system with micro gas turbine and PV (photovoltaic) plant: Guidelines for sizing and management strategies. <i>Energy</i> , 2015, 89, 226-235.	8.8	26
28	Design and test of a single effect thermal desalination plant using waste heat from m-CHP units. <i>Applied Thermal Engineering</i> , 2015, 82, 18-29.	6.0	26
29	Analytical Prediction Models for Evaluating Pumps-As-Turbines (PaTs) Performance. <i>Energy Procedia</i> , 2017, 118, 238-242.	1.8	22
30	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
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	Comparison of different operation modes of a single effect thermal desalination plant using waste heat from m-CHP units. <i>Applied Thermal Engineering</i> , 2016, 100, 646-657.	6.0	20
33	Combustion modelling of a dual fuel diesel “producer gas compression ignition engine. <i>Energy Procedia</i> , 2017, 142, 1395-1400.	1.8	20
34	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
35	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
36	Noise Enhances Action Potential Generation in Mouse Sensory Neurons via Stochastic Resonance. <i>PLoS ONE</i> , 2016, 11, e0160950.	2.5	19

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37	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
38	An experimental evaluation of the performance of a SI internal combustion engine for agricultural purposes fuelled with different bioethanol blends. <i>Energy</i> , 2016, 115, 1069-1080.	8.8	16
39	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
40	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
41	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
42	Feasibility Evaluation of Hybrid Electric Agricultural Tractors Based on Life Cycle Cost Analysis. <i>IEEE Access</i> , 2022, 10, 28853-28867.	4.2	14
43	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
44	Towards a High Order Convergent ALE-SPH Scheme with Efficient WENO Spatial Reconstruction. <i>Water (Switzerland)</i> , 2021, 13, 2432.	2.7	10
45	Improving flexibility of industrial microgrids through thermal storage and HVAC management strategies. <i>Energy Procedia</i> , 2017, 142, 2728-2733.	1.8	9
46	Silicon nanowires to detect electric signals from living cells. <i>Materials Research Express</i> , 2019, 6, 084005.	1.6	9
47	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
48	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
49	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. <i>Energy Procedia</i> , 2015, 75, 1172-1177.	1.8	8
50	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
51	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
52	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
53	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
54	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

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55	Silicon Nanowires as Biocompatible Electronics-Biology Interface. , 2019, , .		5
56	Performance Simulation of a Small-scale Heliostat CSP System: Case Studies in Italy. Energy Procedia, 2017, 105, 367-372.	1.8	4
57	Biocompatibility of silicon nanowires: A step towards IC detectors. AIP Conference Proceedings, 2019, , .	0.4	4
58	CSP control system implementation on embedded board. , 2013, , .		3
59	Micro-Gas Turbine Feed With Natural Gas and Synthesis Gas: Variation of the Turbomachinesâ€™ Operative Conditions With and Without Steam Injection. , 2017, , .		3
60	Torque Prediction Model of a CI Engine for Agricultural Purposes Based on Exhaust Gas Temperatures and CFD-FVM Methodologies Validated with Experimental Tests. Applied Sciences (Switzerland), 2021, 11, 3892.	2.5	3
61	Unliganded human mutant $\hat{\pm}7$ nicotinic receptors are modulated by Ca^{2+} and trace levels of Zn^{2+} . Neuropharmacology, 2004, 46, 727-733.	4.1	2
62	A methodology to estimate average flow rates in Water Supply Systems (WSSs) for energy recovery purposes through hydropower solutions. Renewable Energy, 2021, 180, 1101-1113.	8.9	2
63	Injection and Combustion Analysis of Pure Rapeseed Oil Methyl Ester (RME) in a Pump-Line-Nozzle Fuel Injection System. Energies, 2021, 14, 7535.	3.1	2
64	Functional Effects of Cornichon Proteins on Homomeric GluA1 AMPAR Single-Channels. Biophysical Journal, 2011, 100, 268a.	0.5	0
65	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
66	Experimental problem of indirectly detecting engine torque delivered by agricultural machines through exhaust gas temperature. , 2021, , .		0