Francesco Zimbardi

List of Publications by Year
in descending order

20 papers	546 citations	759055 12 h-index	887953 17 g-index
21 all docs	21 docs citations	21 times ranked	700 citing authors

#	Article	IF	Citations
1	High-Throughput Ion-Implantation for Low-Cost High-Efficiency Silicon Solar Cells. Energy Procedia, 2012, 15, 10-19.	1.8	92
2	Biomass pyrolysis TGA assessment with an international round robin. Fuel, 2020, 276, 118002.	3.4	85
3	Experimental investigation of syngas composition variation along updraft fixed bed gasifier. Energy Conversion and Management, 2020, 221, 113116.	4.4	57
4	Air-steam and oxy-steam gasification of hydrolytic residues from biorefinery. Fuel Processing Technology, 2017, 167, 451-461.	3.7	43
5	Ion-implanted and screen-printed large area 20% efficient N-type front junction Si solar cells. Solar Energy Materials and Solar Cells, 2014, 123, 92-96.	3.0	41
6	Fabrication and Modeling of High-Efficiency Front Junction N-Type Silicon Solar Cells With Tunnel Oxide Passivating Back Contact. IEEE Journal of Photovoltaics, 2017, 7, 1236-1243.	1.5	36
7	Use of composted agro-energy co-products and agricultural residues against soil-borne pathogens in horticultural soil-less systems. Scientia Horticulturae, 2016, 210, 166-179.	1.7	32
8	Fully Ion-Implanted and Screen-Printed 20.2% Efficient Front Junction Silicon Cells on 239 cm $^{f 2}$ n-Type CZ Substrate. IEEE Journal of Photovoltaics, 2014, 4, 58-63.	1.5	30
9	A Feasibility Study of Cellulosic Isobutanol Productionâ€"Process Simulation and Economic Analysis. Processes, 2019, 7, 667.	1.3	21
10	Gasification of Agroresidues for Syngas Production. Energies, 2018, 11, 1280.	1.6	16
11	Optimized Organosolv Pretreatment of Biomass Residues Using 2-Methyltetrahydrofuran and n-Butanol. Processes, 2021, 9, 2051.	1.3	15
12	Effects of Oxygen and Steam Equivalence Ratios on Updraft Gasification of Biomass. Energies, 2021, 14, 2675.	1.6	14
13	Modelling the biomass updraft gasification process using the combination of a pyrolysis kinetic model and a thermodynamic equilibrium model. Energy Reports, 2021, 7, 8051-8061.	2.5	14
14	Antifungal activity of liquid waste obtained from the detoxification of steam-exploded plant biomass against plant pathogenic fungi. Crop Protection, 2014, 55, 109-118.	1.0	12
15	Evaluation of a pilot-scaled paddle dryer for the production of ethanol from lignocellulose including inhibitor removal and high-solids enzymatic hydrolysis. Biotechnology Reports (Amsterdam,) Tj ETQq1 1 0.784314 rgBT /Ov	2.1	12
16	Evaluation of Reaction Order and Activation Energy of Char Combustion by Shift Technique. Combustion Science and Technology, 2000, 156, 251-269.	1.2	9
17	Suppressiveness of steam-exploded biomass of Miscanthus sinensis var. giganteus against soil-borne plant pathogens. Crop Protection, 2011, 30, 246-252.	1.0	9
18	730 mV implied Voc enabled by tunnel oxide passivated contact with PECVD grown and crystallized n+ polycrystalline Si. , 2015, , .		4

#	Article	IF	Citations
19	Field-effect passivation by charge injection into SiNx using a novel low-cost plasma charging method. , 2016, , .		4
20	Development of Low-Cost, Crack-Tolerant Metallization Using Screen Printing. , 2019, , .		2