Marco Frediani

List of Publications by Citations

73 papers	1,559 citations	24 h-index	36 g-index
78 ext. papers	1,772 ext. citations	4.7 avg, IF	4.69 L-index

#	Paper	IF	Citations
73	Efficient disposal of waste polyolefins through microwave assisted pyrolysis. *Fuel*, **2014**, 116, 662-671	7.1	100
72	Microwave pyrolysis of polymeric materials: Waste tires treatment and characterization of the value-added products. *Journal of Analytical and Applied Pyrolysis*, **2013**, 103, 149-158	6	96
71	Upgraded fuel from microwave assisted pyrolysis of waste tire. *Fuel*, **2014**, 115, 600-608	7.1	76
70	Reverse polymerization of waste polystyrene through microwave assisted pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2014**, 105, 35-42	6	75
69	Carbon from microwave assisted pyrolysis of waste tires. *Journal of Analytical and Applied Pyrolysis*, **2013**, 104, 396-404	6	59
68	Depolymerization of polystyrene at reduced pressure through a microwave assisted pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2015**, 113, 281-287	6	53
67	Poly(lactic acid) as a transparent matrix for luminescent solar concentrators: a renewable material for a renewable energy technology. *Energy and Environmental Science*, **2011**, 4, 2849	35.4	48
66	Bio-oil from pyrolysis of wood pellets using a microwave multimode oven and different microwave absorbers. *Fuel*, **2015**, 153, 464-482	7.1	47
65	Fuel from microwave assisted pyrolysis of waste multilayer packaging beverage. *Fuel*, **2014**, 133, 7-16	7.1	46
64	Isotopomeric diols by one-pot Ru-catalyzed homogeneous hydrogenation of dicarboxylic acids. *Journal of Organometallic Chemistry*, **2010**, 695, 1314-1322	2.3	45
63	Amorphous Polyethylene by Tandem Action of Cobalt and Titanium Single-Site Catalysts. *Macromolecular Rapid Communications*, **2005**, 26, 1218-1223	4.8	42
62	Comparison of different processing methods to prepare poly(lactid acid)/hydrotalcite composites. *Polymer Engineering and Science*, **2014**, 54, 1804-1810	2.3	40
61	Ring Opening Polymerization of Lactide under Solvent-Free Conditions Catalyzed by a Chlorotitanium Calix[4]arene Complex. *Macromolecular Rapid Communications*, **2008**, 29, 1554-1560	4.8	40
60	Microwave assisted pyrolysis of halogenated plastics recovered from waste computers. *Waste Management*, **2018**, 73, 511-522	8.6	36
59	A simple procedure for chromatographic analysis of bio-oils from pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2015**, 114, 208-221	6	34
58	Production of bio-oils and bio-char from Arundo donax through microwave assisted pyrolysis in a multimode batch reactor. *Journal of Analytical and Applied Pyrolysis*, **2016**, 122, 479-489	6	32
57	Synthesis of the first polymer-supported tripodal triphosphine ligand and its application in the heterogeneous hydrogenolysis of benzo[b]thiophene by rhodium catalysis. *Chemical Communications*, **2001**, 479-480	5.8	30

56	Conversion of poly(lactic acid) to lactide via microwave assisted pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2014**, 110, 55-65	6	29
55	A comprehensive mechanism of fibrin network formation involving early branching and delayed single- to double-strand transition from coupled time-resolved X-ray/light-scattering detection. *Journal of the American Chemical Society*, **2014**, 136, 5376-84	16.4	27
54	Quinoline transfer hydrogenation by a rhodium bipyridine catalyst. *Inorganica Chimica Acta*, **2006**, 359, 2650-2657	2.7	26
53	Bio-oil from residues of short rotation coppice of poplar using a microwave assisted pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2016**, 119, 224-232	6	25
52	Microwave assisted pyrolysis of corn derived plastic bags. *Journal of Analytical and Applied Pyrolysis* , **2014**, 108, 86-97	6	25
51	Ultrahigh-Molecular-Weight Polyethylene by Using a Titanium Calix[4]arene Complex with High Thermal Stability under Polymerization Conditions. *Macromolecular Chemistry and Physics*, **2007**, 208, 938-945	2.6	25
50	Fluoro-functionalized PLA polymers as potential water-repellent coating materials for protection of stone. *Journal of Applied Polymer Science*, **2012**, 125, 3125-3133	2.9	24
49	Synthesis of Polymer-Supported Rhodium(I)–1,3-Bis(diphenylphosphino)propane Moieties and Their Use in the Heterogeneous Hydrogenation of Quinoline and Benzylideneacetone. *Organometallics*, **2001**, 20, 2660-2662	3.8	23
48	Pyrolysis of α-cellulose using a multimode microwave oven. *Journal of Analytical and Applied Pyrolysis*, **2016**, 120, 284-296	6	21
47	Palladium-nanoparticles on end-functionalized poly(lactic acid)-based stereocomplexes for the chemoselective cinnamaldehyde hydrogenation: Effect of the end-group. *Journal of Catalysis*, **2015**, 330, 187-196	7.3	20
46	Pd-nanoparticles supported onto functionalized poly(lactic acid)-based stereocomplexes for partial alkyne hydrogenation. *Applied Catalysis A: General*, **2014**, 469, 132-138	5.1	20
45	Low density polyethylene by tandem catalysis with single site Ti(IV)/Co(II) catalysts. *Kinetics and Catalysis*, **2006**, 47, 207-212	1.5	19
44	Synthesis of dianols or BPA through catalytic hydrolyisis/glycolysis of waste polycarbonates using a microwave heating. *Journal of Molecular Catalysis A*, **2015**, 408, 278-286		18
43	An Overview of Temperature Issues in Microwave-Assisted Pyrolysis. *Processes*, **2019**, 7, 658	2.9	18
42	Tandem Copolymerization: An Effective Control of the Level of Branching and Molecular Weight Distribution. *Macromolecular Symposia*, **2006**, 236, 124-133	0.8	17
41	High glass transition temperature polyester coatings for the protection of stones. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	15
40	Pd-nanoparticles stabilized by pyridine-functionalized poly(ethylene glycol) as catalyst for the aerobic oxidation of α,β-unsaturated alcohols in water. *Journal of Polymer Science Part A*, **2013**, 51, 2518-2526	2.5	15
39	Platinum nanoparticles onto pegylated poly(lactic acid) stereocomplex for highly selective hydrogenation of aromatic nitrocompounds to anilines. *Applied Catalysis A: General*, **2017**, 537, 50-58	5.1	14

38	Microwave assisted pyrolysis of crop residues from Vitis vinifera. *Journal of Analytical and Applied Pyrolysis*, **2018**, 130, 305-313	6	14
37	Ring-Opening Polymerisation ofrac-Lactide Using a Calix[4]arene-Based Titanium (IV) Complex. *International Journal of Polymer Science*, **2010**, 2010, 1-6	2.4	14
36	Polylactide/Perfluoropolyether Block Copolymers: Potential Candidates for Protective and Surface Modifiers. *Macromolecular Chemistry and Physics*, **2010**, 211, 988-995	2.6	14
35	Ultrasounds in melted poly(ethylene glycol) promote copper-catalyzed cyanation of aryl halides with K(4)[Fe(CN)(6)]. *ChemSusChem*, **2014**, 7, 919-24	8.3	13
34	Novel coatings from renewable resources for the protection of bronzes. *Progress in Organic Coatings*, **2014**, 77, 892-903	4.8	13
33	Synthesis of functionalized polyolefins with novel applications as protective coatings for stone Cultural Heritage. *Progress in Organic Coatings*, **2013**, 76, 1600-1607	4.8	13
32	Pd(II)-pyridine macrocomplexes based on poly(lactide). *Journal of Polymer Science Part A*, **2011**, 49, 4708-4713	2.5	13
31	A Critical Review of SCWG in the Context of Available Gasification Technologies for Plastic Waste. *Applied Sciences (Switzerland)*, **2020**, 10, 6307	2.6	13
30	Characterization of bio-oil and bio-char produced by low-temperature microwave-assisted pyrolysis of olive pruning residue using various absorbers. *Waste Management and Research*, **2020**, 38, 213-225	4	13
29	LLDPE with Exclusively Ethyl Branches by Tandem Catalysis with Single-Site Zr(IV)/Co(II) Catalysts. *Topics in Catalysis*, **2008**, 48, 107-113	2.3	12
28	Catalytic activity of dihydride ruthenium complexes in the hydrogenation of nitrogen containing heterocycles. *Inorganica Chimica Acta*, **2006**, 359, 917-925	2.7	12
27	Nitrile hydration to amide in water: Palladium-based nanoparticles vs molecular catalyst. *Journal of Molecular Catalysis A*, **2015**, 410, 26-33		11
26	Bio-oils from microwave assisted pyrolysis of kraft lignin operating at reduced residual pressure. *Fuel*, **2020**, 278, 118175	7.1	11
25	Microwave pyrolysis of polymeric materials **2011**,		10
24	Effect of nucleating agents on the molar mass distribution and its correlation with the isothermal crystallization behavior of poly(L-lactic acid). *Journal of Applied Polymer Science*, **2011**, 122, 3528-3536	2.9	10
23	High-pressure reactivity of L,L-lactide. *Journal of Physical Chemistry B*, **2011**, 115, 2173-84	3.4	10
22	A convenient route to the synthesis of isotopomeric dihydro-2(3H)furanones. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 3877-83	5.7	8
21	Methyl acrylate polymers as suitable materials for the conservation of stone: performance improvements through atom transfer radical polymerization **2013**, 10, 649-657		7

20	Aerobic alcohol oxidation catalyzed by polyester-based Pd(II) macrocomplexes. *Journal of Polymer Science Part A*, **2012**, 50, 2725-2731	2.5	7
19	One-pot syntheses of alcohols from olefins through Co/Ru tandem catalysis. *Journal of Molecular Catalysis A*, **2007**, 271, 80-85		7
18	Propene Polymerisation with rac-[Me2Si(2-Me-4-(□haphthyl)-1-Ind)2]ZrCl2 as a Highly Active Catalyst: Influence of Monomer Concentration, Polymerisation Temperature and a Heterogenising Support. *Macromolecular Chemistry and Physics*, **2003**, 204, 1941-1947	2.6	7
17	An easily recoverable and recyclable homogeneous polyester-based Pd catalytic system for the hydrogenation of □Unsaturated carbonyl compounds. *Catalysis Communications*, **2015**, 69, 228-233	3.2	6
16	Traditional and innovative protective coatings for outdoor bronze: Application and performance comparison. *Journal of Applied Polymer Science*, **2018**, 135, 46011	2.9	6
15	Protocol: A simple protocol for quantitative analysis of bio-oils through gas- chromatography/mass spectrometry. *European Journal of Mass Spectrometry*, **2016**, 22, 199-212	1.1	6
14	Design and solid phase synthesis of new DOTA conjugated (+)-biotin dimers planned to develop molecular weight-tuned avidin oligomers. *Organic and Biomolecular Chemistry*, **2015**, 13, 3988-4001	3.9	6
13	Microwave Assisted Pyrolysis of Waste Tires: Study and Design of Half-Cells SOFCs with Low Environmental Impact. *ECS Transactions*, **2017**, 78, 1933-1940	1	5
12	L-Lactide polymerization by calix[4]arene-titanium (IV) complex using conventional heating and microwave irradiation. *E-Polymers*, **2010**, 10,	2.7	5
11	Hide tanning with modified natural tannins. *Journal of Applied Polymer Science*, **2008**, 108, 1797-1809	2.9	4
10	Palladium nanoparticles supported onto stereocomplexed poly(lactic acid)-poly(□aprolactone) copolymers for selective partial hydrogenation of phenylacetylene. *Rendiconti Lincei*, **2017**, 28, 51-58	1.7	2
9	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. *Polymers*, **2020**, 12,	4.5	2
8	Catalytic Performances of Platinum Containing PLLA Macrocomplex in the Hydrogenation of □Unsaturated Carbonyl Compounds. *Applied Sciences (Switzerland)*, **2019**, 9, 3243	2.6	1
7	Polyketone Nanocomposites by Palladium-Catalyzed Ethylene-Carbon Monoxide-(Propene) Co(Ter)polymerization Inside an Unmodified Layered Silicate. *E-Polymers*, **2006**, 6,	2.7	1
6	Mixed or Contaminated Waste Plastic Recycling through Microwave - Assisted Pyrolysis		1
5	Aromatic triblock polymers from natural sources as protective coatings for stone surfaces. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	1
4	From Waste to Chemicals: Bio-Oils Production Through Microwave-Assisted Pyrolysis. *Biofuels and Biorefineries*, **2020**, 207-231	0.3	0
3	Pyridine and Bipyridine End-Functionalized Polylactide: Synthesis and Catalytic Applications **2017**, 47-67		

2	Synthesis and Characterization of Eco-Friendly Waterborne Polyester-Urethane-Phosphorus Resin for Industrial Coil Coatings. *Polymer Science - Series A*, **2021**, 63, 690-704	1.2
1	Microwave-Assisted Pyrolysis Process: From a Laboratory Scale to an Industrial Plant	