

# Marco Frediani

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthesis and Characterization of Eco-Friendly Waterborne Polyester-Urethane-Phosphorus Resin for Industrial Coil Coatings. <i>Polymer Science - Series A</i> , <b>2021</b> , 63, 690-704	1.2	
72	Bio-oils from microwave assisted pyrolysis of kraft lignin operating at reduced residual pressure. <i>Fuel</i> , <b>2020</b> , 278, 118175	7.1	11
71	From Waste to Chemicals: Bio-Oils Production Through Microwave-Assisted Pyrolysis. <i>Biofuels and Biorefineries</i> , <b>2020</b> , 207-231	0.3	0
70	A Critical Review of SCWG in the Context of Available Gasification Technologies for Plastic Waste. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6307	2.6	13
69	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
68	Characterization of bio-oil and bio-char produced by low-temperature microwave-assisted pyrolysis of olive pruning residue using various absorbers. <i>Waste Management and Research</i> , <b>2020</b> , 38, 213-225	4	13
67	Catalytic Performances of Platinum Containing PLLA Macrocomplex in the Hydrogenation of $\alpha$ -Unsaturated Carbonyl Compounds. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3243	2.6	1
66	An Overview of Temperature Issues in Microwave-Assisted Pyrolysis. <i>Processes</i> , <b>2019</b> , 7, 658	2.9	18
65	Microwave assisted pyrolysis of crop residues from <i>Vitis vinifera</i> . <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 130, 305-313	6	14
64	Traditional and innovative protective coatings for outdoor bronze: Application and performance comparison. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46011	2.9	6
63	Microwave assisted pyrolysis of halogenated plastics recovered from waste computers. <i>Waste Management</i> , <b>2018</b> , 73, 511-522	8.6	36
62	Platinum nanoparticles onto pegylated poly(lactic acid) stereocomplex for highly selective hydrogenation of aromatic nitrocompounds to anilines. <i>Applied Catalysis A: General</i> , <b>2017</b> , 537, 50-58	5.1	14
61	Microwave Assisted Pyrolysis of Waste Tires: Study and Design of Half-Cells SOFCs with Low Environmental Impact. <i>ECS Transactions</i> , <b>2017</b> , 78, 1933-1940	1	5
60	Pyridine and Bipyridine End-Functionalized Polylactide: Synthesis and Catalytic Applications <b>2017</b> , 47-67		
59	Palladium nanoparticles supported onto stereocomplexed poly(lactic acid)-poly( $\epsilon$ -caprolactone) copolymers for selective partial hydrogenation of phenylacetylene. <i>Rendiconti Lincei</i> , <b>2017</b> , 28, 51-58	1.7	2
58	Production of bio-oils and bio-char from <i>Arundo donax</i> through microwave assisted pyrolysis in a multimode batch reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 122, 479-489	6	32
57	Protocol: A simple protocol for quantitative analysis of bio-oils through gas- chromatography/mass spectrometry. <i>European Journal of Mass Spectrometry</i> , <b>2016</b> , 22, 199-212	1.1	6

56	Pyrolysis of cellulose using a multimode microwave oven. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 120, 284-296	6	21
55	Bio-oil from residues of short rotation coppice of poplar using a microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 119, 224-232	6	25
54	Aromatic triblock polymers from natural sources as protective coatings for stone surfaces. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	1
53	Palladium-nanoparticles on end-functionalized poly(lactic acid)-based stereocomplexes for the chemoselective cinnamaldehyde hydrogenation: Effect of the end-group. <i>Journal of Catalysis</i> , <b>2015</b> , 330, 187-196	7.3	20
52	An easily recoverable and recyclable homogeneous polyester-based Pd catalytic system for the hydrogenation of $\alpha$ -unsaturated carbonyl compounds. <i>Catalysis Communications</i> , <b>2015</b> , 69, 228-233	3.2	6
51	Depolymerization of polystyrene at reduced pressure through a microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 113, 281-287	6	53
50	Bio-oil from pyrolysis of wood pellets using a microwave multimode oven and different microwave absorbers. <i>Fuel</i> , <b>2015</b> , 153, 464-482	7.1	47
49	High glass transition temperature polyester coatings for the protection of stones. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	15
48	Synthesis of dianols or BPA through catalytic hydrolysis/glycolysis of waste polycarbonates using a microwave heating. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 408, 278-286		18
47	Nitrile hydration to amide in water: Palladium-based nanoparticles vs molecular catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 410, 26-33		11
46	A simple procedure for chromatographic analysis of bio-oils from pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 114, 208-221	6	34
45	Design and solid phase synthesis of new DOTA conjugated (+)-biotin dimers planned to develop molecular weight-tuned avidin oligomers. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 3988-4001	3.9	6
44	Ultrasounds in melted poly(ethylene glycol) promote copper-catalyzed cyanation of aryl halides with $K(4)[Fe(CN)(6)]$ . <i>ChemSusChem</i> , <b>2014</b> , 7, 919-24	8.3	13
43	Pd-nanoparticles supported onto functionalized poly(lactic acid)-based stereocomplexes for partial alkyne hydrogenation. <i>Applied Catalysis A: General</i> , <b>2014</b> , 469, 132-138	5.1	20
42	Reverse polymerization of waste polystyrene through microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 105, 35-42	6	75
41	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. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5376-84	16.4	27
40	Efficient disposal of waste polyolefins through microwave assisted pyrolysis. <i>Fuel</i> , <b>2014</b> , 116, 662-671	7.1	100
39	Microwave assisted pyrolysis of corn derived plastic bags. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 108, 86-97	6	25

38	Novel coatings from renewable resources for the protection of bronzes. <i>Progress in Organic Coatings</i> , <b>2014</b> , 77, 892-903	4.8	13
37	Conversion of poly(lactic acid) to lactide via microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 110, 55-65	6	29
36	Comparison of different processing methods to prepare poly(lactid acid)/Hydrotalcite composites. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 1804-1810	2.3	40
35	Fuel from microwave assisted pyrolysis of waste multilayer packaging beverage. <i>Fuel</i> , <b>2014</b> , 133, 7-16	7.1	46
34	Upgraded fuel from microwave assisted pyrolysis of waste tire. <i>Fuel</i> , <b>2014</b> , 115, 600-608	7.1	76
33	Synthesis of functionalized polyolefins with novel applications as protective coatings for stone Cultural Heritage. <i>Progress in Organic Coatings</i> , <b>2013</b> , 76, 1600-1607	4.8	13
32	Methyl acrylate polymers as suitable materials for the conservation of stone: performance improvements through atom transfer radical polymerization <b>2013</b> , 10, 649-657		7
31	Pd-nanoparticles stabilized by pyridine-functionalized poly(ethylene glycol) as catalyst for the aerobic oxidation of $\alpha$ -unsaturated alcohols in water. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 2518-2528	2.5	15
30	Microwave pyrolysis of polymeric materials: Waste tires treatment and characterization of the value-added products. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 103, 149-158	6	96
29	Carbon from microwave assisted pyrolysis of waste tires. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 104, 396-404	6	59
28	Aerobic alcohol oxidation catalyzed by polyester-based Pd(II) macrocomplexes. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 2725-2731	2.5	7
27	Fluoro-functionalized PLA polymers as potential water-repellent coating materials for protection of stone. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3125-3133	2.9	24
26	Poly(lactic acid) as a transparent matrix for luminescent solar concentrators: a renewable material for a renewable energy technology. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2849	35.4	48
25	Microwave pyrolysis of polymeric materials <b>2011</b> ,		10
24	Pd(II)-pyridine macrocomplexes based on poly(lactide). <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 4708-4713	2.7	13
23	Effect of nucleating agents on the molar mass distribution and its correlation with the isothermal crystallization behavior of poly(L-lactic acid). <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 3528-3536	2.9	10
22	High-pressure reactivity of L,L-lactide. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 2173-84	3.4	10
21	Ring-Opening Polymerisation of rac-Lactide Using a Calix[4]arene-Based Titanium (IV) Complex. <i>International Journal of Polymer Science</i> , <b>2010</b> , 2010, 1-6	2.4	14

20	L-Lactide polymerization by calix[4]arene-titanium (IV) complex using conventional heating and microwave irradiation. <i>E-Polymers</i> , <b>2010</b> , 10,	2.7	5
19	Poly(lactide)/Perfluoropolyether Block Copolymers: Potential Candidates for Protective and Surface Modifiers. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 988-995	2.6	14
18	Isotopomeric diols by one-pot Ru-catalyzed homogeneous hydrogenation of dicarboxylic acids. <i>Journal of Organometallic Chemistry</i> , <b>2010</b> , 695, 1314-1322	2.3	45
17	LLDPE with Exclusively Ethyl Branches by Tandem Catalysis with Single-Site Zr(IV)/Co(II) Catalysts. <i>Topics in Catalysis</i> , <b>2008</b> , 48, 107-113	2.3	12
16	Ring Opening Polymerization of Lactide under Solvent-Free Conditions Catalyzed by a Chlorotitanium Calix[4]arene Complex. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 1554-1560	4.8	40
15	Hide tanning with modified natural tannins. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 1797-1809	2.9	4
14	A convenient route to the synthesis of isotopomeric dihydro-2(3H)furanones. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 3877-83	5.7	8
13	Ultrahigh-Molecular-Weight Polyethylene by Using a Titanium Calix[4]arene Complex with High Thermal Stability under Polymerization Conditions. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 938-945	2.6	25
12	One-pot syntheses of alcohols from olefins through Co/Ru tandem catalysis. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 271, 80-85		7
11	Polyketone Nanocomposites by Palladium-Catalyzed Ethylene-Carbon Monoxide-(Propene) Co(Ter)polymerization Inside an Unmodified Layered Silicate. <i>E-Polymers</i> , <b>2006</b> , 6,	2.7	1
10	Tandem Copolymerization: An Effective Control of the Level of Branching and Molecular Weight Distribution. <i>Macromolecular Symposia</i> , <b>2006</b> , 236, 124-133	0.8	17
9	Low density polyethylene by tandem catalysis with single site Ti(IV)/Co(II) catalysts. <i>Kinetics and Catalysis</i> , <b>2006</b> , 47, 207-212	1.5	19
8	Catalytic activity of dihydride ruthenium complexes in the hydrogenation of nitrogen containing heterocycles. <i>Inorganica Chimica Acta</i> , <b>2006</b> , 359, 917-925	2.7	12
7	Quinoline transfer hydrogenation by a rhodium bipyridine catalyst. <i>Inorganica Chimica Acta</i> , <b>2006</b> , 359, 2650-2657	2.7	26
6	Amorphous Polyethylene by Tandem Action of Cobalt and Titanium Single-Site Catalysts. <i>Macromolecular Rapid Communications</i> , <b>2005</b> , 26, 1218-1223	4.8	42
5	Propene Polymerisation with <i>rac</i> -[Me <sub>2</sub> Si(2-Me-4-( <i>η</i> -phthyl)-1-Ind) <sub>2</sub> ]ZrCl <sub>2</sub> as a Highly Active Catalyst: Influence of Monomer Concentration, Polymerisation Temperature and a Heterogenising Support. <i>Macromolecular Chemistry and Physics</i> , <b>2003</b> , 204, 1941-1947	2.6	7
4	Synthesis of the first polymer-supported tripodal triphosphine ligand and its application in the heterogeneous hydrogenolysis of benzo[ <i>b</i> ]thiophene by rhodium catalysis. <i>Chemical Communications</i> , <b>2001</b> , 479-480	5.8	30
3	Synthesis of Polymer-Supported Rhodium(I)-1,3-Bis(diphenylphosphino)propane Moieties and Their Use in the Heterogeneous Hydrogenation of Quinoline and Benzylideneacetone. <i>Organometallics</i> , <b>2001</b> , 20, 2660-2662	3.8	23

2 Mixed or Contaminated Waste Plastic Recycling through Microwave - Assisted Pyrolysis

1

1 Microwave-Assisted Pyrolysis Process: From a Laboratory Scale to an Industrial Plant