

Marco Frediani

List of Publications by Year in descending order

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74
papers

2,011
citations

201385

27
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276539

41
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78
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78
docs citations

78
times ranked

2166
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient disposal of waste polyolefins through microwave assisted pyrolysis. <i>Fuel</i> , 2014, 116, 662-671.	3.4	131
2	Microwave pyrolysis of polymeric materials: Waste tires treatment and characterization of the value-added products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 103, 149-158.	2.6	119
3	Reverse polymerization of waste polystyrene through microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 35-42.	2.6	109
4	Upgraded fuel from microwave assisted pyrolysis of waste tire. <i>Fuel</i> , 2014, 115, 600-608.	3.4	89
5	Depolymerization of polystyrene at reduced pressure through a microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 281-287.	2.6	74
6	Carbon from microwave assisted pyrolysis of waste tires. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 396-404.	2.6	71
7	Microwave assisted pyrolysis of halogenated plastics recovered from waste computers. <i>Waste Management</i> , 2018, 73, 511-522.	3.7	60
8	Fuel from microwave assisted pyrolysis of waste multilayer packaging beverage. <i>Fuel</i> , 2014, 133, 7-16.	3.4	58
9	Bio-oil from pyrolysis of wood pellets using a microwave multimode oven and different microwave absorbers. <i>Fuel</i> , 2015, 153, 464-482.	3.4	56
10	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> , 2011, 4, 2849.	15.6	54
11	Isotopomeric diols by $\text{K}^+\text{-pot}^+\text{-Ru}$ -catalyzed homogeneous hydrogenation of dicarboxylic acids. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1314-1322.	0.8	49
12	A Critical Review of SCWG in the Context of Available Gasification Technologies for Plastic Waste. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6307.	1.3	49
13	Amorphous Polyethylene by Tandem Action of Cobalt and Titanium Single-Site Catalysts. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1218-1223.	2.0	44
14	Ring Opening Polymerization of Lactide under Solvent-Free Conditions Catalyzed by a Chlorotitanium Calix[4]arene Complex. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1554-1560.	2.0	44
15	Comparison of different processing methods to prepare poly(lactid acid)-hydroxalcite composites. <i>Polymer Engineering and Science</i> , 2014, 54, 1804-1810.	1.5	44
16	A simple procedure for chromatographic analysis of bio-oils from pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 208-221.	2.6	42
17	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> , 2016, 122, 479-489.	2.6	42
18	Bio-oil from residues of short rotation coppice of poplar using a microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 119, 224-232.	2.6	37

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19	An Overview of Temperature Issues in Microwave-Assisted Pyrolysis. <i>Processes</i> , 2019, 7, 658.	1.3	37
20	Conversion of poly(lactic acid) to lactide via microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 55-65.	2.6	36
21	Synthesis of the first polymer-supported tripodal triphosphine ligand and its application in the heterogeneous hydrogenolysis of benzo[b]thiophene by rhodium catalysis. <i>Chemical Communications</i> , 2001, , 479-480.	2.2	34
22	Synthesis of Polymer-Supported Rhodium(I) η^5 -1,3-Bis(diphenylphosphino)propane Moieties and Their Use in the Heterogeneous Hydrogenation of Quinoline and Benzylideneacetone. <i>Organometallics</i> , 2001, 20, 2660-2662.	1.1	32
23	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> , 2014, 136, 5376-5384.	6.6	32
24	Microwave assisted pyrolysis of corn derived plastic bags. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 108, 86-97.	2.6	30
25	Pyrolysis of β -cellulose using a multimode microwave oven. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 284-296.	2.6	30
26	Fluoro- ϵ -functionalized PLA polymers as potential water- ϵ -repellent coating materials for protection of stone. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3125-3133.	1.3	28
27	Quinoline transfer hydrogenation by a rhodium bipyridine catalyst. <i>Inorganica Chimica Acta</i> , 2006, 359, 2650-2657.	1.2	27
28	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> , 2007, 208, 938-945.	1.1	27
29	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> , 2015, 330, 187-196.	3.1	27
30	Synthesis of dianols or BPA through catalytic hydrolysis/glycolysis of waste polycarbonates using a microwave heating. <i>Journal of Molecular Catalysis A</i> , 2015, 408, 278-286.	4.8	26
31	Pd-nanoparticles supported onto functionalized poly(lactic acid)-based stereocomplexes for partial alkyne hydrogenation. <i>Applied Catalysis A: General</i> , 2014, 469, 132-138.	2.2	24
32	Bio-oils from microwave assisted pyrolysis of kraft lignin operating at reduced residual pressure. <i>Fuel</i> , 2020, 278, 118175.	3.4	22
33	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> , 2020, 38, 213-225.	2.2	21
34	Low density polyethylene by tandem catalysis with single site Ti(IV)/Co(II) catalysts. <i>Kinetics and Catalysis</i> , 2006, 47, 207-212.	0.3	20
35	Tandem Copolymerization: An Effective Control of the Level of Branching and Molecular Weight Distribution. <i>Macromolecular Symposia</i> , 2006, 236, 124-133.	0.4	19
36	Microwave assisted pyrolysis of crop residues from <i>Vitis vinifera</i> . <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 130, 305-313.	2.6	19

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37	Platinum nanoparticles onto pegylated poly(lactic acid) stereocomplex for highly selective hydrogenation of aromatic nitrocompounds to anilines. <i>Applied Catalysis A: General</i> , 2017, 537, 50-58.	2.2	18
38	Novel coatings from renewable resources for the protection of bronzes. <i>Progress in Organic Coatings</i> , 2014, 77, 892-903.	1.9	17
39	Poly(lactide)/Perfluoropolyether Block Copolymers: Potential Candidates for Protective and Surface Modifiers. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 988-995.	1.1	16
40	Ring-Opening Polymerisation of <i>rac</i> -Lactide Using a Calix[4]arene-Based Titanium (IV) Complex. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-6.	1.2	16
41	Ultrasounds in Melted Poly(ethylene glycol) Promote Copper-Catalyzed Cyanation of Aryl Halides with $K_4[Fe(CN)_6]$. <i>ChemSusChem</i> , 2014, 7, 919-924.	3.6	16
42	High glass transition temperature polyester coatings for the protection of stones. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	16
43	High-Pressure Reactivity of <i>l</i> , <i>l</i> -Lactide. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2173-2184.	1.2	15
44	Microwave pyrolysis of polymeric materials. , 0, , .		15
45	Pd-nanoparticles stabilized by pyridine-functionalized poly(ethylene glycol) as catalyst for the aerobic oxidation of α,β -unsaturated alcohols in water. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2518-2526.	2.5	15
46	Pd(II)-pyridine macrocomplexes based on poly(lactide). <i>Journal of Polymer Science Part A</i> , 2011, 49, 4708-4713.	2.5	14
47	Effect of nucleating agents on the molar mass distribution and its correlation with the isothermal crystallization behavior of poly(L-lactide). <i>Journal of Applied Polymer Science</i> , 2011, 122, 3528-3536.	1.3	14
48	Synthesis of functionalized polyolefins with novel applications as protective coatings for stone Cultural Heritage. <i>Progress in Organic Coatings</i> , 2013, 76, 1600-1607.	1.9	14
49	Traditional and innovative protective coatings for outdoor bronze: Application and performance comparison. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46011.	1.3	14
50	Catalytic activity of dihydride ruthenium complexes in the hydrogenation of nitrogen containing heterocycles. <i>Inorganica Chimica Acta</i> , 2006, 359, 917-925.	1.2	13
51	LLDPE with Exclusively Ethyl Branches by Tandem Catalysis with Single-Site Zr(IV)/Co(II) Catalysts. <i>Topics in Catalysis</i> , 2008, 48, 107-113.	1.3	12
52	Nitrile hydration to amide in water: Palladium-based nanoparticles vs molecular catalyst. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 26-33.	4.8	12
53	One-pot syntheses of alcohols from olefins through Co/Ru tandem catalysis. <i>Journal of Molecular Catalysis A</i> , 2007, 271, 80-85.	4.8	10
54	Aerobic alcohol oxidation catalyzed by polyester-based Pd(II) macrocomplexes. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2725-2731.	2.5	9

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55	Methyl acrylate polymers as suitable materials for the conservation of stone: performance improvements through atom transfer radical polymerization. <i>Journal of Coatings Technology Research</i> , 2013, 10, 649-657.	1.2	9
56	Selective Alkyne Semi-Hydrogenation by PdCu Nanoparticles Immobilized on Stereocomplexed Poly(lactic acid). <i>ChemCatChem</i> , 2022, 14, .	1.8	9
57	A Convenient Route to the Synthesis of Isotopomeric Dihydro-2(3H)furanones. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 3877-3883.	2.4	8
58	An easily recoverable and recyclable homogeneous polyester-based Pd catalytic system for the hydrogenation of α,β -unsaturated carbonyl compounds. <i>Catalysis Communications</i> , 2015, 69, 228-233.	1.6	8
59	Propene Polymerisation with $\text{rac-}[\text{Me}_2\text{Si}(2\text{-Me-4-(1-naphthyl)-1-Ind)}_2\text{ZrCl}_2$ as a Highly Active Catalyst: Influence of Monomer Concentration, Polymerisation Temperature and a Heterogenising Support. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1941-1947.	1.1	7
60	L-Lactide polymerization by calix[4]arene-titanium (IV) complex using conventional heating and microwave irradiation. <i>E-Polymers</i> , 2010, 10, .	1.3	7
61	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> , 2015, 13, 3988-4001.	1.5	7
62	A Simple Protocol for Quantitative Analysis of Bio-Oils through Gas-Chromatography/Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 199-212.	0.5	6
63	Hide tanning with modified natural tannins. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1797-1809.	1.3	5
64	Microwave Assisted Pyrolysis of Waste Tires: Study and Design of Half-Cells SOFCs with Low Environmental Impact. <i>ECS Transactions</i> , 2017, 78, 1933-1940.	0.3	5
65	Palladium nanoparticles supported onto stereocomplexed poly(lactic acid)-poly(ϵ -caprolactone) copolymers for selective partial hydrogenation of phenylacetylene. <i>Rendiconti Lincei</i> , 2017, 28, 51-58.	1.0	4
66	Catalytic Performances of Platinum Containing PLLA Macrocomplex in the Hydrogenation of α,β -Unsaturated Carbonyl Compounds. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3243.	1.3	3
67	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. <i>Polymers</i> , 2020, 12, 1979.	2.0	3
68	Mixed or Contaminated Waste Plastic Recycling through Microwave - Assisted Pyrolysis. , 0, , .		3
69	Polyketone Nanocomposites by Palladium-Catalyzed Ethylene-Carbon Monoxide-(Propene) Co(Ter)polymerization Inside an Unmodified Layered Silicate. <i>E-Polymers</i> , 2006, 6, .	1.3	2
70	Aromatic triblock polymers from natural sources as protective coatings for stone surfaces. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	2
71	From Waste to Chemicals: Bio-Oils Production Through Microwave-Assisted Pyrolysis. <i>Biofuels and Biorefineries</i> , 2020, , 207-231.	0.5	1
72	Synthesis and Characterization of Eco-Friendly Waterborne Polyester-Urethane-Phosphorus Resin for Industrial Coil Coatings. <i>Polymer Science - Series A</i> , 2021, 63, 690-704.	0.4	1

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73	Microwave-Assisted Pyrolysis Process: From a Laboratory Scale to an Industrial Plant. , 0, , .		1
74	Palladium-Based Catalysts Supported onto End-Functionalized Poly(lactide) for C=C Double and Triple Bond Hydrogenation Reactions. , 2017, , .		0