

Luca Rosi

List of Publications by Year in descending order

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85
papers

2,212
citations

201674

27
h-index

265206

42
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89
all docs

89
docs citations

89
times ranked

2370
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient disposal of waste polyolefins through microwave assisted pyrolysis. <i>Fuel</i> , 2014, 116, 662-671.	6.4	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.	5.5	119
3	Reverse polymerization of waste polystyrene through microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 35-42.	5.5	109
4	Upgraded fuel from microwave assisted pyrolysis of waste tire. <i>Fuel</i> , 2014, 115, 600-608.	6.4	89
5	Formic acid dehydrogenation catalysed by ruthenium complexes bearing the tripodal ligands triphos and NP ₃ . <i>Dalton Transactions</i> , 2013, 42, 2495-2501.	3.3	86
6	Depolymerization of polystyrene at reduced pressure through a microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 281-287.	5.5	74
7	Carbon from microwave assisted pyrolysis of waste tires. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 396-404.	5.5	71
8	Microwave assisted pyrolysis of halogenated plastics recovered from waste computers. <i>Waste Management</i> , 2018, 73, 511-522.	7.4	60
9	Fuel from microwave assisted pyrolysis of waste multilayer packaging beverage. <i>Fuel</i> , 2014, 133, 7-16.	6.4	58
10	Bio-oil from pyrolysis of wood pellets using a microwave multimode oven and different microwave absorbers. <i>Fuel</i> , 2015, 153, 464-482.	6.4	56
11	Isotopomeric diols by $\eta^3\text{-pot-Ru}$ -catalyzed homogeneous hydrogenation of dicarboxylic acids. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1314-1322.	1.8	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.	2.5	49
13	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.	3.9	44
14	Straightforward synthesis of enantiopure 2-aminomethyl and 2-hydroxymethyl pyrrolidines with complete stereocontrol. <i>Tetrahedron Letters</i> , 2005, 46, 1287-1290.	1.4	43
15	A simple procedure for chromatographic analysis of bio-oils from pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 208-221.	5.5	42
16	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.	5.5	42
17	Lab-scale pyrolysis and hydrothermal carbonization of biomass digestate: Characterization of solid products and compliance with biochar standards. <i>Biomass and Bioenergy</i> , 2020, 139, 105593.	5.7	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.	5.5	37

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19	Conversion of poly(lactic acid) to lactide via microwave assisted pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 55-65.	5.5	36
20	Lignocellulosic Ethanol Biorefinery: Valorization of Lignin-Rich Stream through Hydrothermal Liquefaction. <i>Energies</i> , 2019, 12, 723.	3.1	33
21	On the behaviour of Ru(I) and Ru(II) carbonyl acetates in the presence of H ₂ and/or acetic acid and their role in the catalytic hydrogenation of acetic acid. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 371-382.	1.8	32
22	Recycling of waste automobile tires: Transforming char in oxygen reduction reaction catalysts for alkaline fuel cells. <i>Journal of Power Sources</i> , 2019, 427, 85-90.	7.8	32
23	Inner- versus Outer-Sphere Ru-Catalyzed Formic Acid Dehydrogenation: A Computational Study. <i>Organometallics</i> , 2013, 32, 7053-7064.	2.3	31
24	Microwave assisted pyrolysis of corn derived plastic bags. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 108, 86-97.	5.5	30
25	Pyrolysis of Î±-cellulose using a multimode microwave oven. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 284-296.	5.5	30
26	Fluoro- functionalized PLA polymers as potential water- repellent coating materials for protection of stone. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3125-3133.	2.6	28
27	Quinoline transfer hydrogenation by a rhodium bipyridine catalyst. <i>Inorganica Chimica Acta</i> , 2006, 359, 2650-2657.	2.4	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.	2.2	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.	6.2	27
30	Hydrogenation of single and multiple N=C or N=O bonds by Ru(II) catalysts in homogeneous phase. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3641-3651.	1.8	26
31	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
32	Pd-nanoparticles supported onto functionalized poly(lactic acid)-based stereocomplexes for partial alkyne hydrogenation. <i>Applied Catalysis A: General</i> , 2014, 469, 132-138.	4.3	24
33	Activation of single and multiple C=C bonds by Ru(II) catalysts in homogeneous phase. <i>Comptes Rendus Chimie</i> , 2004, 7, 769-778.	0.5	23
34	Analysis of egg-based model wall paintings by use of an innovative combined dot-ELISA and UPLC-based approach. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 691-701.	3.7	22
35	Bio-oils from microwave assisted pyrolysis of kraft lignin operating at reduced residual pressure. <i>Fuel</i> , 2020, 278, 118175.	6.4	22
36	Biochar from lab-scale pyrolysis: influence of feedstock and operational temperature. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5901-5911.	4.6	22

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37	Ruthenium carbonyl carboxylates with nitrogen containing ligands: IV. Catalytic activity in the hydroformylation of olefins in homogeneous phase. <i>Journal of Organometallic Chemistry</i> , 1997, 547, 35-40.	1.8	21
38	The role of functionalized phosphines in the hydrogenation of carboxylic acids in the presence of phosphine substituted hydrido ruthenium complexes. <i>Journal of Organometallic Chemistry</i> , 1999, 582, 218-228.	1.8	21
39	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.	3.9	21
40	Tandem Copolymerization: An Effective Control of the Level of Branching and Molecular Weight Distribution. <i>Macromolecular Symposia</i> , 2006, 236, 124-133.	0.7	19
41	Microwave assisted pyrolysis of crop residues from <i>Vitis vinifera</i> . <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 130, 305-313.	5.5	19
42	Functionalized phosphine substituted cobalt carbonyls. Synthesis, characterization and catalytic activity in the hydroformylation of olefins. <i>Journal of Molecular Catalysis A</i> , 1996, 112, 367-383.	4.8	18
43	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.	4.3	18
44	Novel coatings from renewable resources for the protection of bronzes. <i>Progress in Organic Coatings</i> , 2014, 77, 892-903.	3.9	17
45	Poly(lactide)/Perfluoropolyether Block Copolymers: Potential Candidates for Protective and Surface Modifiers. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 988-995.	2.2	16
46	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.	2.7	16
47	High glass transition temperature polyester coatings for the protection of stones. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	16
48	Cobalt-Catalyzed Hydroformylation of Olefins in the Presence of Additional Inert Gases. <i>Organometallics</i> , 1997, 16, 4235-4236.	2.3	15
49	Microwave pyrolysis of polymeric materials. , 0, , .		15
50	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.	2.3	15
51	Synthesis of functionalized polyolefins with novel applications as protective coatings for stone Cultural Heritage. <i>Progress in Organic Coatings</i> , 2013, 76, 1600-1607.	3.9	14
52	Traditional and innovative protective coatings for outdoor bronze: Application and performance comparison. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46011.	2.6	14
53	Characterization of Chemically and Physically Activated Carbons from Lignocellulosic Ethanol Lignin-Rich Stream via Hydrothermal Carbonization and Slow Pyrolysis Pretreatment. <i>Energies</i> , 2020, 13, 4101.	3.1	14
54	Towards a better understanding of the HTL process of lignin-rich feedstock. <i>Scientific Reports</i> , 2021, 11, 15504.	3.3	14

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55	Catalytic activity of dihydride ruthenium complexes in the hydrogenation of nitrogen containing heterocycles. <i>Inorganica Chimica Acta</i> , 2006, 359, 917-925.	2.4	13
56	Optimisation Study of Co Deposition on Chars from MAP of Waste Tyres as Green Electrodes in ORR for Alkaline Fuel Cells. <i>Energies</i> , 2020, 13, 5646.	3.1	13
57	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
58	Hydrothermal Depolymerization of Biorefinery Lignin-Rich Streams: Influence of Reaction Conditions and Catalytic Additives on the Organic Monomers Yields in Biocrude and Aqueous Phase. <i>Energies</i> , 2020, 13, 1241.	3.1	12
59	Synthesis, Characterization, and Behavior of Hydridoruthenium Carbonyl Clusters Substituted with Functionalized Phosphines in the Presence of Hydrogen. 1. $H_4Ru_4(CO)_8[P(CH_2OCOR)_3]_4 (R = CH_3 \text{ or } C_6H_5)$. <i>Journal of Organometallic Chemistry</i> , 1997, 535, 143-147.	1.8	10
60	The behaviour of n- and iso-propylcobalt tricarbonyl tributylphosphine complexes under hydroformylation conditions. <i>Journal of Organometallic Chemistry</i> , 1997, 535, 143-147.	1.8	10
61	Oligomerization of aldehydes catalyzed by cobalt carbonyl complexes. <i>Journal of Molecular Catalysis A</i> , 1998, 132, 189-201.	4.8	10
62	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
63	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.	2.5	9
64	Coupling hydrothermal liquefaction and aqueous phase reforming for integrated production of biocrude and renewable H_2 . <i>AIChE Journal</i> , 2023, 69, .	3.6	9
65	Cobalt-Catalyzed Hydroformylation of Olefins in the Presence of Xenon: New Experimental Evidence for Metal-Xenon Adducts. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 67-68.	2.0	8
66	Influence of an Additional Gas on the Hydroformylation and Related Reactions. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1155-1161.	2.0	8
67	A Convenient Route to the Synthesis of Isotopomeric Dihydro-2(3H)furanones. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 3877-3883.	5.2	8
68	A methodological approach to the selection of liquid reagents for chemical ionization ion trap-gas chromatography mass spectrometry: A case study of GBL and 1,4-BD. <i>International Journal of Mass Spectrometry</i> , 2015, 388, 34-39.	1.5	8
69	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.	3.3	8
70	L-Lactide polymerization by calix[4]arene-titanium (IV) complex using conventional heating and microwave irradiation. <i>E-Polymers</i> , 2010, 10, .	3.0	7
71	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.	2.8	7
72	A low temperature transfer hydrogenation of NN, CO or CC bond using rhodium bipyridine catalysts. <i>Inorganic Chemistry Communication</i> , 2005, 8, 94-95.	3.9	6

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73	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.	1.0	6
74	Hide tanning with modified natural tannins. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1797-1809.	2.6	5
75	Determination of GHB and its precursors (GBL and 1,4-BD) in dietary supplements through the synthesis of their isotopologues and analysis by GC-MS method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 74, 31-38.	2.8	5
76	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.	0.5	5
77	Value-added products from waste: Slow pyrolysis of used polyethylene-lined paper coffee cup waste. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 1271-1285.	1.7	5
78	Palladium nanoparticles supported onto stereocomplexed poly(lactic acid)-poly(μ -caprolactone) copolymers for selective partial hydrogenation of phenylacetylene. <i>Rendiconti Lincei</i> , 2017, 28, 51-58.	2.2	4
79	Catalytic Performances of Platinum Containing PLLA Macrocomplex in the Hydrogenation of α,β -Unsaturated Carbonyl Compounds. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3243.	2.5	3
80	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. <i>Polymers</i> , 2020, 12, 1979.	4.5	3
81	Aromatic triblock polymers from natural sources as protective coatings for stone surfaces. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	2
82	From Waste to Chemicals: Bio-Oils Production Through Microwave-Assisted Pyrolysis. <i>Biofuels and Biorefineries</i> , 2020, , 207-231.	0.5	1
83	Nanodispersions of TiO ₂ in Water for Removing Acrylic Films Used in Conservation. <i>Polymers</i> , 2021, 13, 3966.	4.5	1
84	Enhancing biogas production in anaerobic digestion by the addition of oxidized and non-oxidized biochars. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5457-5468.	4.6	1
85	Palladium-Based Catalysts Supported onto End-Functionalized Poly(lactide) for C=C Double and Triple Bond Hydrogenation Reactions. , 2017, , .		0