

Manda Lemos

List of Publications by Year in descending order

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64
papers

1,861
citations

304743

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265206

42
g-index

65
all docs

65
docs citations

65
times ranked

2257
citing authors

#	ARTICLE	IF	CITATIONS
1	The Acidity of Zeolites: Concepts, Measurements and Relation to Catalysis: A Review on Experimental and Theoretical Methods for the Study of Zeolite Acidity. <i>Catalysis Reviews - Science and Engineering</i> , 2013, 55, 454-515.	12.9	262
2	Activation of C2-C4 alkanes over acid and bifunctional zeolite catalysts. <i>Journal of Molecular Catalysis A</i> , 2006, 255, 131-158.	4.8	222
3	Mononuclear and Binuclear Cyclopentadienyl Oxo Molybdenum and Tungsten Complexes: Syntheses and Applications in Olefin Epoxidation Catalysis. <i>Organometallics</i> , 2005, 24, 2582-2589.	2.3	84
4	Electron-transfer induced isomerizations of coordination compounds. <i>Coordination Chemistry Reviews</i> , 2001, 219-221, 53-80.	18.8	83
5	1-Butene oligomerization over ZSM-5 zeolite: Part 1 - Effect of reaction conditions. <i>Fuel</i> , 2013, 111, 449-460.	6.4	78
6	The effect of ZSM-5 zeolite acidity on the catalytic degradation of high-density polyethylene using simultaneous DSC/TG analysis. <i>Applied Catalysis A: General</i> , 2012, 413-414, 183-191.	4.3	74
7	Activity-acidity relationship for alkane cracking over zeolites: n-hexane cracking over HZSM-5. <i>Journal of Molecular Catalysis A</i> , 2005, 229, 127-135.	4.8	64
8	Synthesis and bactericide activity of nanofiltration composite membranes - Cellulose acetate/silver nanoparticles and cellulose acetate/silver ion exchanged zeolites. <i>Water Research</i> , 2019, 149, 225-231.	11.3	61
9	Synthesis and structural characterisation of (aryl-BIAN)copper(i) complexes and their application as catalysts for the cycloaddition of azides and alkynes. <i>Dalton Transactions</i> , 2012, 41, 5144.	3.3	60
10	Light olefin transformation over ZSM-5 zeolites: A kinetic model for olefin consumption. <i>Applied Catalysis A: General</i> , 2007, 324, 20-29.	4.3	59
11	Correlating NH ₃ -TPD and ¹ H MAS NMR measurements of zeolite acidity: proposal of an acidity scale. <i>Applied Catalysis A: General</i> , 2005, 284, 39-46.	4.3	56
12	Light olefin transformation over ZSM-5 zeolites with different acid strengths - A kinetic model. <i>Applied Catalysis A: General</i> , 2010, 384, 177-185.	4.3	48
13	Conversion of alk-1-yne into alkyne, alkynyl, alkylidyne and alkylidene complexes of molybdenum and tungsten. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 1775.	1.1	44
14	A catalytic reactive distillation approach to high density polyethylene pyrolysis - Part 1 - Light olefin production. <i>Chemical Engineering Journal</i> , 2019, 378, 122077.	12.7	42
15	Redox properties of the carbyne, aminocarbyne and η^2 -vinyl complexes trans-[ReCl(LH)(dppe) ₂][BF ₄] (LH \rightarrow) Tj ETQq1 1 0.784314 rgt compounds. <i>Journal of Organometallic Chemistry</i> , 1988, 356, C79-C82.	1.8	38
16	Propane conversion over a H-ZSM5 acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2004, 216, 131-137.	4.8	32
17	Synthesis, spectroscopic, magnetic and electrochemical properties of Cu(II) and Fe(III) complexes with the new ligand N,N'-[1,1'-dithiobis(phenyl)]bis(5-methoxysalicylaldehyde). <i>Inorganica Chimica Acta</i> , 1996, 244, 25-36.		30
18	Novel synthesis of a phosphinidene oxide- η^5 P(RP \rightarrow O, R = ButCH ₂) complex of rhenium(I) from a phosphalkyne precursor. Crystal and molecular structure of [ReCl(Ph ₂ PCH ₂ CH ₂ PPh ₂) ₂ {P(O)CH ₂ But}]. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 645-646.	2.0	27

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19	Stepwise reduction of a phosphalkyne $\text{Pt}\equiv\text{C}$ bond to a phosphalkene and a phosphine at the $\text{FeH}(\text{dppe})_2$ centre. Crystal and molecular structure of the η^1 -1-co-ordinated phosphalkyne complex $\text{trans}[\text{FeH}(\eta^1\text{-Pt}\equiv\text{CBut})(\text{dppe})_2][\text{BPh}_4]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 3319-3324.	1.1	25
20	Mononuclear alkynyl, alkenyl, alkylidyne and alkylidene complexes of molybdenum and tungsten from reactions of 1-alkynes with hydride complexes. Crystal Structure of $[\text{WH}_2(\text{C}\equiv\frac{1}{4}\text{CCO}_2\text{Me})_2(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)_2]$. <i>Journal of Organometallic Chemistry</i> , 1988, 350, C4-C7.	1.8	22
21	Electrochemical behaviour of $\text{trans}[\text{FeH}(\text{CNR})(\text{dppe})_2]^+$. Kinetic parameters determined by digital simulation of cyclic voltammetry. <i>Journal of Organometallic Chemistry</i> , 1992, 438, 159-165.	1.8	22
22	Modelling of ex vivo expansion/maintenance of hematopoietic stem cells. <i>Bioprocess and Biosystems Engineering</i> , 2003, 25, 365-369.	3.4	22
23	Electro-oxidation of phenol on zeolite/graphite composite electrodes. <i>Journal of Molecular Catalysis A</i> , 2006, 248, 48-52.	4.8	22
24	Copper(II) complexes of bis(aryl-imino)acenaphthene ligands: synthesis, structure, DFT studies and evaluation in reverse ATRP of styrene. <i>Dalton Transactions</i> , 2014, 43, 13041.	3.3	22
25	Aminocarbene and isocyanide complexes of rhenium. Crystal structures of $\text{trans}[\text{ReCl}(\text{CNR})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)_2]$ ($\text{R}=\text{H}$ or SiMe_3). <i>Dalton Transactions RSC</i> , 2000, , 373-380.	2.3	21
26	Catalytic degradation of low and high density polyethylenes using ethylene polymerization catalysts: Kinetic studies using simultaneous TG/DSC analysis. <i>Applied Catalysis A: General</i> , 2010, 374, 170-179.	4.3	21
27	Synthesis of the η^1 -1-phosphalkyne complex $\text{trans}[\text{FeH}(\text{Pt}\equiv\frac{1}{4}\text{CBut})(\text{dppe})_2][\text{BF}_4]$ and its conversion into a η^1 -1-fluorophosphalkene complex. Crystal structure of $\text{trans}[\text{FeH}(\text{PF}\equiv\text{CHBut})(\text{dppe})_2][\text{FeCl}_2\text{F}_2]$. <i>Journal of Organometallic Chemistry</i> , 1991, 402, C23-C26.	1.8	20
28	Kinetic modelling of phenol co-oxidation using horseradish peroxidase. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 99-108.	3.4	20
29	Copolymerization of ethylene/unsaturated alcohols using nickel catalysts: effect of the ligand on the activity and comonomer incorporation. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 895-909.	1.8	18
30	Octahedral $\text{Co}(\text{III})$ complexes of 2-(phenylimino)pyrrolyl ligands: Synthesis and structural characterisation. <i>Inorganica Chimica Acta</i> , 2011, 367, 151-157.	2.4	18
31	Electrochemical metal-hydride bond cleavage at the dinitrogen-binding iron centre $\{\text{FeH}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)_2\}^+$, and its electroactivation towards nucleophilic attack. <i>Journal of Organometallic Chemistry</i> , 1987, 332, C17-C20.	1.8	16
32	Kinetic modelling of the catalytic cracking of n-hexane and n-heptane over a zeolite catalyst. <i>Applied Catalysis A: General</i> , 2004, 272, 23-28.	4.3	15
33	Polymerisation of Norbornene Catalysed by Highly Active Tetradentate Chelated η^2 -Diimine Nickel Complexes. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 367-374.	2.2	15
34	Ethylene polymerization over transition-metal supported catalysts. II. Cr on zeolite, silica, and charcoal: Characterization and activity studies. <i>Journal of Polymer Science Part A</i> , 2003, 41, 3768-3780.	2.3	14
35	(Pentabenzylcyclopentadienyl)molybdenum Complexes: Synthesis, Structures and Redox Properties. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1103-1113.	2.0	14
36	Kinetic analysis of the degradation of HDPE+PP polymer mixtures. <i>International Journal of Chemical Kinetics</i> , 2021, 53, 660-674.	1.6	14

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37	Syntheses and properties of isocyanide complexes of iron, trans-[FeH(CNR)(Ph ₂ PCH ₂ CH ₂ PPh ₂) ₂][A] (A → Tj ETQq1 1 0.784314 rgBT	1.8	13
38	Electro-oxidation of phenol on a new type of zeolite/graphite biocomposite electrode with horseradish peroxidase. <i>Journal of Molecular Catalysis A</i> , 2007, 278, 47-52.	4.8	13
39	Pentabenzylcyclopentadienyl molybdenum and tungsten hydrides: Syntheses, structures and electrochemistry of [MHCPz(CO) ₂ (L)] (L=CO, PMe ₃ , PPh ₃). <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1328-1336.	1.8	11
40	Electro-oxidation of phenol on zeolite/graphite composite electrodes. <i>Journal of Molecular Catalysis A</i> , 2006, 253, 170-175.	4.8	10
41	Contributions for the study of the acid transformation of hydrocarbons over zeolites. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 60-68.	4.8	10
42	Copolymerization of ethylene with unsaturated alcohols and methylmethacrylate using a silylated diimine nickel catalyst: Molecular modeling and photodegradation studies. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1820-1832.	2.6	10
43	Titanium Triamidotriamine Compounds: Syntheses, Structures and Redox Properties. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1689-1697.	2.0	9
44	A catalytic reactive distillation approach to high density polyethylene pyrolysis – Part 2 – Middle olefin production. <i>Catalysis Today</i> , 2021, 379, 212-221.	4.4	9
45	Modelling the voltammetric behaviour of cobalt cations inside zeolites. <i>Studies in Surface Science and Catalysis</i> , 1999, , 443-446.	1.5	8
46	Kinetic modeling studies of ethylene polymerization reactions using supported chromium catalysts. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3464-3472.	2.3	8
47	Kinetic Analysis of the ex vivo Expansion of Human Hematopoietic Stem/Progenitor Cells. <i>Biotechnology Letters</i> , 2006, 28, 335-340.	2.2	8
48	Modeling and control of an exothermal reaction. <i>Chemical Engineering Journal</i> , 2014, 238, 93-99.	12.7	8
49	Activity-Acidity Relationships in Solid Acid Catalysis – A Quantum Chemical Study. <i>Studies in Surface Science and Catalysis</i> , 2001, , 501-506.	1.5	6
50	Coprocessing of Waste Plastic and Hydrocarbons over MFI (HZSM-5). <i>International Journal of Chemical Kinetics</i> , 2016, 48, 329-336.	1.6	5
51	Time resolved polarography. Study of the EC mechanism. <i>Analytica Chimica Acta</i> , 1995, 306, 107-113.	5.4	4
52	Mechanism of the electrochemical reduction of [Fe(η -5-C ₆ H ₇)(CO) ₃][PF ₆] ⁻ a theoretical approach to the intermediates. <i>Journal of Organometallic Chemistry</i> , 2001, 632, 49-57.	1.8	4
53	Electro-oxidation of phenol on zeolite/graphite composite electrodes. <i>Catalysis Today</i> , 2008, 133-135, 855-862.	4.4	4
54	Using Plastic Waste in a Circular Economy Approach to Improve the Properties of Bituminous Binders. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2526.	2.5	4

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55	Kinetics of Ethylene Polymerisation over CrY Zeolites. Studies in Surface Science and Catalysis, 2001, 133, 173-180.	1.5	3
56	Bis(formylpyrrolyl) cobalt complexes as mediators in the reversible-deactivation radical polymerization of styrene and methyl methacrylate. New Journal of Chemistry, 2018, 42, 5900-5913.	2.8	3
57	Analysis and Modelling of Multi-Site Acid Catalysts. , 2002, , 217-243.		2
58	Ethylene Polymerization over Transition Metal Supported Catalysts. III. Vanadium. E-Polymers, 2006, 6, .	3.0	1
59	Using simultaneous DSC/TG to analyze the kinetics of polyethylene degradationâ€™ catalytic cracking using HY and HZSM-5 zeolites. Reaction Kinetics, Mechanisms and Catalysis, 2009, 99, 5.	1.7	1
60	Structure, morphology and interfacial behaviour of ethylene/methacrylate copolymers. Journal of Polymer Research, 2013, 20, 1.	2.4	1
61	Using Digital Simulation to Study Hydroquinone Oxidation on Porous Electrodes by Cyclic Voltammetry. AIP Conference Proceedings, 2007, , .	0.4	0
62	Modelling Complex Kinetic Systems. , 2000, , 175-204.		0
63	Acidity, Activity and Micro-Kinetics Studies in an H-ZSM5. , 2005, , 321-326.		0
64	Microkinetic Model for Propane Activation over H-ZSM5. , 2005, , 327-332.		0