Nadine Essayem

List of Publications by Year
in descending order

66 papers	2,701 citations	236833 25 h-index	182361 51 g-index
66 all docs	66 docs citations	66 times ranked	3239 citing authors

#	Article	IF	Citations
1	Synthesis and Applications of Alkyl Levulinates. ACS Sustainable Chemistry and Engineering, 2014, 2, 1338-1352.	3.2	360
2	Cellulose hydrothermal conversion promoted by heterogeneous BrÃ¸nsted and Lewis acids: Remarkable efficiency of solid Lewis acids to produce lactic acid. Applied Catalysis B: Environmental, 2011, 105, 171-181.	10.8	229
3	Selective aqueous phase oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Pt/C catalysts: influence of the base and effect of bismuth promotion. Green Chemistry, 2013, 15, 2240.	4.6	220
4	Selective Aerobic Oxidation of 5â€HMF into 2,5â€Furandicarboxylic Acid with Pt Catalysts Supported on TiO₂â€•and ZrO₂â€Based Supports. ChemSusChem, 2015, 8, 1206-1217.	3.6	190
5	Acidic and catalytic properties of CsxH3âˆ’xPW12O40 heteropolyacid compounds. Catalysis Letters, 1995, 34, 223-235.	1.4	140
6	Influence of the coordination on the catalytic properties of supported W catalysts. Journal of Catalysis, 2004, 226, 25-31.	3.1	107
7	Non-catalyzed and Pt/Î³-Al2O3-catalyzed hydrothermal cellulose dissolutionâ€“conversion: influence of the reaction parameters and analysis of the unreacted cellulose. Green Chemistry, 2009, 11, 2052.	4.6	106
8	5-Hydroxymethylfurfural (5-HMF) Production from Hexoses: Limits of Heterogeneous Catalysis in Hydrothermal Conditions and Potential of Concentrated Aqueous Organic Acids as Reactive Solvent System. Challenges, 2012, 3, 212-232.	0.9	105
9	Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations. Applied Catalysis A: General, 2011, 402, 1-10.	2.2	82
10	Cellulose Reactivity in Supercritical Methanol in the Presence of Solid Acid Catalysts: Direct Synthesis of Methyl-levulinate. Industrial & Engineering Chemistry Research, 2011, 50, 799-805.	1.8	77
11	Reconstructed La-, Y-, Ce-modified MgAl-hydrotalcite as a solid base catalyst for aldol condensation: Investigation of water tolerance. Journal of Catalysis, 2014, 318, 108-118.	3.1	67
12	FTIR as a simple tool to quantify unconverted lignin from chars in biomass liquefaction process: Application to SC ethanol liquefaction of pine wood. Fuel Processing Technology, 2015, 134, 378-386.	3.7	67
13	Glucoseâ€“fructose isomerisation promoted by basic hybrid catalysts. Catalysis Today, 2012, 195, 114-119.	2.2	65
14	High yield production of HMF from carbohydrates over silicaâ€“alumina composite catalysts. Catalysis Science and Technology, 2016, 6, 7586-7596.	2.1	56
15	Characterization of Model Three-Way Catalysts. Journal of Catalysis, 1997, 166, 229-235.	3.1	51
16	Activation of Small Alkanes by Heteropolyacids, a H/D Exchange Study: The Key Role of Hydration Water. Journal of Catalysis, 1999, 183, 292-299.	3.1	50
17	A new green approach for the reduction of graphene oxide nanosheets using caffeine. Bulletin of Materials Science, 2015, 38, 667-671.	0.8	46
18	Effect of the addition of Sn to zirconia on the acidic properties of the sulfated mixed oxide. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 347-353.	1.7	42

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19	Ammonia adsorptionâ€"desorption over the strong solid acid catalyst H3PW12O40 and its Cs+ and NH4+ salts Comparison with sulfated zirconia. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3243-3248.	1.7	41
20	Synthesis and characterization of acidic ordered mesoporous organosilica SBA-15: Application to the hydrolysis of cellobiose and insight into the stability of the acidic functions. Journal of Catalysis, 2013, 305, 204-216.	3.1	39
21	Esterification of aqueous lactic acid solutions with ethanol using carbon solid acid catalysts: Amberlyst 15, sulfonated pyrolyzed wood and graphene oxide. Applied Catalysis A: General, 2018, 552, 184-191.	2.2	37
22	Title is missing!. Catalysis Letters, 1998, 56, 35-41.	1.4	36
23	On the understanding of the remarkable activity of template-containing mesoporous molecular sieves in the transesterification of rapeseed oil with ethanol. Journal of Catalysis, 2010, 276, 190-196.	3.1	30
24	Cellulose Conversion with Tungstatedâ€Aluminaâ€Based Catalysts: Influence of the Presence of Platinum and Mechanistic Studies. ChemSusChem, 2013, 6, 500-507.	3.6	30
25	Conversion of cellulose to 2,5-hexanedione using tungstated zirconia in hydrogen atmosphere. Applied Catalysis A: General, 2015, 504, 664-671.	2.2	29
26	Synergy effect between solid acid catalysts and concentrated carboxylic acids solutions for efficient furfural production from xylose. Catalysis Today, 2014, 226, 176-184.	2.2	25
27	Oxidative dehydrogenation of ethylbenzene to styrene over the CoFe2O4â€"MCM-41 catalyst: preferential adsorption on the O2â^'Fe3+O2â^' sites located at octahedral positions. Catalysis Science and Technology, 2019, 9, 2469-2484.	2.1	25
28	Zirconia modified by Cs cationic exchange: Physico-chemical and catalytic evidences of basicity enhancement. Journal of Catalysis, 2010, 269, 1-4.	3.1	21
29	Pt-AlOOH-SiO2/graphene hybrid nanomaterial with very high electrocatalytic performance for methanol oxidation. Journal of Power Sources, 2015, 276, 340-346.	4.0	21
30	Comparative study of transformation of linear alkanes over modified mordenites and sulphated zirconia catalysts: Influence of the zeolite acidity on the performance of n-butane isomerization. Journal of Molecular Catalysis A, 2008, 293, 31-38.	4.8	20
31	Influence of butanol isomers on the reactivity of cellulose towards the synthesis of butyl levulinates catalyzed by liquid and solid acid catalysts. New Journal of Chemistry, 2016, 40, 3747-3754.	1.4	19
32	Direct Solid Lewis Acid Catalyzed Wood Liquefaction into Lactic Acid: Kinetic Evidences that Wood Pretreatment Might Not be a Prerequisite. ChemCatChem, 2017, 9, 2377-2382.	1.8	17
33	Clean Adipic Acid Synthesis from Liquid-Phase Oxidation of Cyclohexanone and Cyclohexanol Using (NH4)xAyPMo12O40 (A: Sb, Sn, Bi) Mixed Heteropolysalts and Hydrogen Peroxide in Free Solvent. Catalysis Letters, 2018, 148, 612-620.	1.4	17
34	Comparison of hydrothermal and photocatalytic conversion of glucose with commercial TiO2: Superficial properties-activities relationships. Catalysis Today, 2021, 367, 268-277.	2.2	16
35	Non-Catalyzed and Pt/Î³-Al2O3 Catalyzed Hydrothermal Cellulose Dissolution-Conversion: Influence of the Reaction Parameters. Topics in Catalysis, 2010, 53, 1254-1257.	1.3	15
36	Deuterium Solid-State NMR Study of the Dynamic Behavior of Deuterons and Water Molecules in Solid D3PW12O40. Journal of Physical Chemistry B, 2003, 107, 12438-12443.	1.2	14

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37	Continuous iC4/C4=Alkylation under iC4Supercritical Conditions over K2.5H0.5PW12O40and Hâˆ'Beta Solid Acids. Industrial & Engineering Chemistry Research, 2004, 43, 6355-6362.	1.8	14
38	Studies on MeAPSO-5: An investigation of physicochemical and acidic properties. Catalysis Today, 2008, 133-135, 56-62.	2.2	12
39	Structural, acidic and catalytic features of transition metal-containing molecular sieves in the transformation of C4 hydrocarbon. Applied Catalysis A: General, 2010, 382, 10-20.	2.2	12
40	Synthesis of Cuâ€“M_xO_y/Al₂O₃ (M = Fe, Zn, W or Sb) catalysts for the conversion of glycerol to acetol: effect of texture and acidity of the supports. RSC Advances, 2015, 5, 93394-93402.	1.7	12
41	Esterification of Lactic Acid by Catalytic Extractive Reaction: An Efficient Way to Produce a Biosolvent Composition. Catalysis Letters, 2013, 143, 950-956.	1.4	11
42	New Insights into the Reactivity of Biomass with Butenes for the Synthesis of Butyl Levulinates. ChemSusChem, 2017, 10, 2612-2617.	3.6	10
43	Noncatalyzed Liquefaction of Celluloses in Hydrothermal Conditions: Influence of Reactant Physicochemical Characteristics and Modeling Studies. Industrial & Engineering Chemistry Research, 2017, 56, 126-134.	1.8	9
44	Acid Properties of GO and Reduced GO as Determined by Microcalorimetry, FTIR, and Kinetics of Cellulose Hydrolysis-Hydrogenolysis. Catalysts, 2020, 10, 1393.	1.6	9
45	Hydrothermal process assisted by photocatalysis: Towards a novel hybrid mechanism driven glucose valorization to levulinic acid, ethylene and hydrogen. Applied Catalysis B: Environmental, 2022, 305, 121051.	10.8	9
46	Silica supported sulfated zirconia prepared by a sol-gel process: Effect of solvent evacuation procedure on the structural, textural and catalytic properties. Journal of Sol-Gel Science and Technology, 2006, 38, 185-190.	1.1	8
47	1H NMR evidence for the bi-pyridinium nature of the pyridine salt of H3PW12O40. Catalysis Communications, 2005, 6, 539-541.	1.6	7
48	Acid and superacid solids for the transformation of n-butane. Reaction Kinetics and Catalysis Letters, 2006, 89, 123-129.	0.6	7
49	Correlation between the basicity of Cuâ€“MxOyâ€“Al2O3 (MÂ=ÂBa, Mg, K or La) oxide and the catalytic performance in the glycerol conversion from adsorption microcalorimetry characterization. Journal of Thermal Analysis and Calorimetry, 2017, 129, 65-74.	2.0	7
50	Influence of the support on the catalytic properties of Keggin type heteropolyacids supported on niobia according to two different methodologies: evaluation of isopropanol dehydration and Friedelâ€“Crafts alkylation reaction. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 317-334.	0.8	7
51	Kinetic of ZrW catalyzed cellulose hydrothermal conversion: Deeper understanding of reaction pathway via analytic tools improvement. Molecular Catalysis, 2018, 458, 171-179.	1.0	7
52	ZrW catalyzed cellulose conversion in hydrothermal conditions: Influence of the calcination temperature and insights on the nature of the active phase. Molecular Catalysis, 2019, 476, 110518.	1.0	7
53	Comparison of the Acidity of Heteropolyacids Encapsulated in or Impregnated on SBA-15. Oil and Gas Science and Technology, 2016, 71, 25.	1.4	6
54	Controlled pinewood fractionation with supercritical ethanol: A prerequisite toward pinewood conversion into chemicals and biofuels. Comptes Rendus Chimie, 2018, 21, 555-562.	0.2	6

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55	Effect of hydration on the surface basicity and catalytic activity of Mg-rare earth mixed oxides for aldol condensation. Journal of Rare Earths, 2018, 36, 359-366.	2.5	5
56	Thermal control of the defunctionalization of supported Au25(glutathione)18 catalysts for benzyl alcohol oxidation. Beilstein Journal of Nanotechnology, 2019, 10, 228-237.	1.5	5
57	Preferential adsorption of CO2 on cobalt ferrite sites and its role in oxidative dehydrogenation of ethylbenzene. Brazilian Journal of Chemical Engineering, 2021, 38, 495-510.	0.7	5
58	Gas-Phase Conversion of Glycerol to Acetol: Influence of Support Acidity on the Catalytic Stability and Copper Surface Properties on the Activity. Journal of the Brazilian Chemical Society, 2016, , .	0.6	4
59	Improving conversion of d-Glucose into short-chain alkanes over Ru/MCM-48 based catalysts. Microporous and Mesoporous Materials, 2019, 286, 25-35.	2.2	4
60	NON-CRYSTALLINE COPPER OXIDE HIGHLY DISPERSED ON MESOPOROUS ALUMINA: SYNTHESIS, CHARACTERIZATION AND CATALYTIC ACTIVITY IN GLYCEROL CONVERSION TO ACETOL. Quimica Nova, 2016, , .	0.3	2
61	Mesoporous Zirconium Oxide Prepared by Anchoring W, Mo, Nb, Ta Using Peroxo Precursors: Influence of the Oxoanions on the Pores Size and the Hydrothermal Catalysts Stability for Cellulose Conversion. Catalysis Letters, 2023, 153, 1205-1214.	1.4	2
62	Reutilization of Glycerol Derived from Biodiesel Production Using HPW-Based Catalysts Supported on Niobium for Obtention of Additives. Revista Virtual De Quimica, 2014, 6, .	0.1	1
63	A Landscape of Lignocellulosic Biopolymer Transformations into Valuable Molecules by Heterogeneous Catalysis in Câ€™Durable Team at IRCELYON. Molecules, 2021, 26, 6796.	1.7	1
64	Evolution des propriÃ©tÃ©s texturales, structurales et catalytiques des oxydes mixtes de zircone sulfatÃ©e-silice avec le rapport molaire Zr/Si : influence de la mÃ©thode de synthÃ¨se. Annales De Chimie: Science Des Materiaux, 2008, 33, 189-201.	0.2	0
65	Glycerol Etherification with Light Alcohols Promoted by Supported H3PW12O40. , 2013, , 141-152.		0
66	SYNTHESIS AND THEORETICAL STUDY OF HPW CATALYSTS SUPPORTED ON NIOBIA CALCINATED AT 500 AND 600 Â°C. Quimica Nova, 2019, , .	0.3	0