

Nadine Essayem

List of Publications by Year in descending order

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papers

2,701
citations

236833

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docs citations

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3239
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#	ARTICLE	IF	CITATIONS
1	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. <i>Catalysis Letters</i> , 2023, 153, 1205-1214.	1.4	2
2	Hydrothermal process assisted by photocatalysis: Towards a novel hybrid mechanism driven glucose valorization to levulinic acid, ethylene and hydrogen. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121051.	10.8	9
3	Comparison of hydrothermal and photocatalytic conversion of glucose with commercial TiO ₂ : Superficial properties-activities relationships. <i>Catalysis Today</i> , 2021, 367, 268-277.	2.2	16
4	Preferential adsorption of CO ₂ on cobalt ferrite sites and its role in oxidative dehydrogenation of ethylbenzene. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 495-510.	0.7	5
5	A Landscape of Lignocellulosic Biopolymer Transformations into Valuable Molecules by Heterogeneous Catalysis in C ² ™ Durable Team at IRCELYON. <i>Molecules</i> , 2021, 26, 6796.	1.7	1
6	Acid Properties of GO and Reduced GO as Determined by Microcalorimetry, FTIR, and Kinetics of Cellulose Hydrolysis-Hydrogenolysis. <i>Catalysts</i> , 2020, 10, 1393.	1.6	9
7	ZrW catalyzed cellulose conversion in hydrothermal conditions: Influence of the calcination temperature and insights on the nature of the active phase. <i>Molecular Catalysis</i> , 2019, 476, 110518.	1.0	7
8	Thermal control of the defunctionalization of supported Au ₂₅ (glutathione) ₁₈ catalysts for benzyl alcohol oxidation. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 228-237.	1.5	5
9	Improving conversion of d-Glucose into short-chain alkanes over Ru/MCM-48 based catalysts. <i>Microporous and Mesoporous Materials</i> , 2019, 286, 25-35.	2.2	4
10	Oxidative dehydrogenation of ethylbenzene to styrene over the CoFe ₂ O ₄ @MCM-41 catalyst: preferential adsorption on the O ₂ ²⁻ Fe ³⁺ O ₂ ²⁻ sites located at octahedral positions. <i>Catalysis Science and Technology</i> , 2019, 9, 2469-2484.	2.1	25
11	SYNTHESIS AND THEORETICAL STUDY OF HPW CATALYSTS SUPPORTED ON NIOBIA CALCINATED AT 500 AND 600 Å°C. <i>Quimica Nova</i> , 2019, , .	0.3	0
12	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 Friedel-Crafts alkylation reaction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 124, 317-334.	0.8	7
13	Effect of hydration on the surface basicity and catalytic activity of Mg-rare earth mixed oxides for aldol condensation. <i>Journal of Rare Earths</i> , 2018, 36, 359-366.	2.5	5
14	Clean Adipic Acid Synthesis from Liquid-Phase Oxidation of Cyclohexanone and Cyclohexanol Using (NH ₄) _x APMo ₁₂ O ₄₀ (A: Sb, Sn, Bi) Mixed Heteropolysalts and Hydrogen Peroxide in Free Solvent. <i>Catalysis Letters</i> , 2018, 148, 612-620.	1.4	17
15	Esterification of aqueous lactic acid solutions with ethanol using carbon solid acid catalysts: Amberlyst 15, sulfonated pyrolyzed wood and graphene oxide. <i>Applied Catalysis A: General</i> , 2018, 552, 184-191.	2.2	37
16	Controlled pinewood fractionation with supercritical ethanol: A prerequisite toward pinewood conversion into chemicals and biofuels. <i>Comptes Rendus Chimie</i> , 2018, 21, 555-562.	0.2	6
17	Kinetic of ZrW catalyzed cellulose hydrothermal conversion: Deeper understanding of reaction pathway via analytic tools improvement. <i>Molecular Catalysis</i> , 2018, 458, 171-179.	1.0	7
18	New Insights into the Reactivity of Biomass with Butenes for the Synthesis of Butyl Levulinates. <i>ChemSusChem</i> , 2017, 10, 2612-2617.	3.6	10

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19	Direct Solid Lewis Acid Catalyzed Wood Liquefaction into Lactic Acid: Kinetic Evidences that Wood Pretreatment Might Not be a Prerequisite. <i>ChemCatChem</i> , 2017, 9, 2377-2382.	1.8	17
20	Noncatalyzed Liquefaction of Celluloses in Hydrothermal Conditions: Influence of Reactant Physicochemical Characteristics and Modeling Studies. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 126-134.	1.8	9
21	Correlation between the basicity of Cu ^x O ^y /Al ₂ O ₃ (M = Ba, Mg, K or La) oxide and the catalytic performance in the glycerol conversion from adsorption microcalorimetry characterization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 65-74.	2.0	7
22	Gas-Phase Conversion of Glycerol to Acetol: Influence of Support Acidity on the Catalytic Stability and Copper Surface Properties on the Activity. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	4
23	NON-CRYSTALLINE COPPER OXIDE HIGHLY DISPERSED ON MESOPOROUS ALUMINA: SYNTHESIS, CHARACTERIZATION AND CATALYTIC ACTIVITY IN GLYCEROL CONVERSION TO ACETOL. <i>Quimica Nova</i> , 2016, , .	0.3	2
24	Comparison of the Acidity of Heteropolyacids Encapsulated in or Impregnated on SBA-15. <i>Oil and Gas Science and Technology</i> , 2016, 71, 25.	1.4	6
25	High yield production of HMF from carbohydrates over silica-alumina composite catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 7586-7596.	2.1	56
26	Influence of butanol isomers on the reactivity of cellulose towards the synthesis of butyl levulinates catalyzed by liquid and solid acid catalysts. <i>New Journal of Chemistry</i> , 2016, 40, 3747-3754.	1.4	19
27	A new green approach for the reduction of graphene oxide nanosheets using caffeine. <i>Bulletin of Materials Science</i> , 2015, 38, 667-671.	0.8	46
28	Selective Aerobic Oxidation of 5-HMF into 2,5-Furandicarboxylic Acid with Pt Catalysts Supported on TiO ₂ and ZrO ₂ -Based Supports. <i>ChemSusChem</i> , 2015, 8, 1206-1217.	3.6	190
29	Conversion of cellulose to 2,5-hexanedione using tungstated zirconia in hydrogen atmosphere. <i>Applied Catalysis A: General</i> , 2015, 504, 664-671.	2.2	29
30	FTIR as a simple tool to quantify unconverted lignin from chars in biomass liquefaction process: Application to SC ethanol liquefaction of pine wood. <i>Fuel Processing Technology</i> , 2015, 134, 378-386.	3.7	67
31	Synthesis of Cu ^x O ^y /Al ₂ O ₃ (M = Fe, Zn, W or Sb) catalysts for the conversion of glycerol to acetol: effect of texture and acidity of the supports. <i>RSC Advances</i> , 2015, 5, 93394-93402.	1.7	12
32	Pt-ALOOH-SiO ₂ /graphene hybrid nanomaterial with very high electrocatalytic performance for methanol oxidation. <i>Journal of Power Sources</i> , 2015, 276, 340-346.	4.0	21
33	Synergy effect between solid acid catalysts and concentrated carboxylic acids solutions for efficient furfural production from xylose. <i>Catalysis Today</i> , 2014, 226, 176-184.	2.2	25
34	Reconstructed La-, Y-, Ce-modified MgAl-hydrotalcite as a solid base catalyst for aldol condensation: Investigation of water tolerance. <i>Journal of Catalysis</i> , 2014, 318, 108-118.	3.1	67
35	Synthesis and Applications of Alkyl Levulinates. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1338-1352.	3.2	360
36	Reutilization of Glycerol Derived from Biodiesel Production Using HPW-Based Catalysts Supported on Niobium for Obtention of Additives. <i>Revista Virtual De Quimica</i> , 2014, 6, .	0.1	1

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37	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. <i>Green Chemistry</i> , 2013, 15, 2240.	4.6	220
38	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. <i>Journal of Catalysis</i> , 2013, 305, 204-216.	3.1	39
39	Cellulose Conversion with Tungstated-Alumina-Based Catalysts: Influence of the Presence of Platinum and Mechanistic Studies. <i>ChemSusChem</i> , 2013, 6, 500-507.	3.6	30
40	Esterification of Lactic Acid by Catalytic Extractive Reaction: An Efficient Way to Produce a Biosolvent Composition. <i>Catalysis Letters</i> , 2013, 143, 950-956.	1.4	11
41	Glycerol Etherification with Light Alcohols Promoted by Supported H ₃ PW ₁₂ O ₄₀ . , 2013, , 141-152.		0
42	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. <i>Challenges</i> , 2012, 3, 212-232.	0.9	105
43	Glucose-fructose isomerisation promoted by basic hybrid catalysts. <i>Catalysis Today</i> , 2012, 195, 114-119.	2.2	65
44	Cellulose Reactivity in Supercritical Methanol in the Presence of Solid Acid Catalysts: Direct Synthesis of Methyl-levulinate. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 799-805.	1.8	77
45	Cellulose hydrothermal conversion promoted by heterogeneous Brønsted and Lewis acids: Remarkable efficiency of solid Lewis acids to produce lactic acid. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 171-181.	10.8	229
46	Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations. <i>Applied Catalysis A: General</i> , 2011, 402, 1-10.	2.2	82
47	Non-Catalyzed and Pt/Al ₂ O ₃ Catalyzed Hydrothermal Cellulose Dissolution-Conversion: Influence of the Reaction Parameters. <i>Topics in Catalysis</i> , 2010, 53, 1254-1257.	1.3	15
48	Zirconia modified by Cs cationic exchange: Physico-chemical and catalytic evidences of basicity enhancement. <i>Journal of Catalysis</i> , 2010, 269, 1-4.	3.1	21
49	On the understanding of the remarkable activity of template-containing mesoporous molecular sieves in the transesterification of rapeseed oil with ethanol. <i>Journal of Catalysis</i> , 2010, 276, 190-196.	3.1	30
50	Structural, acidic and catalytic features of transition metal-containing molecular sieves in the transformation of C ₄ hydrocarbon. <i>Applied Catalysis A: General</i> , 2010, 382, 10-20.	2.2	12
51	Non-catalyzed and Pt/Al ₂ O ₃ -catalyzed hydrothermal cellulose dissolution-conversion: influence of the reaction parameters and analysis of the unreacted cellulose. <i>Green Chemistry</i> , 2009, 11, 2052.	4.6	106
52	Studies on MeAPSO-5: An investigation of physicochemical and acidic properties. <i>Catalysis Today</i> , 2008, 133-135, 56-62.	2.2	12
53	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. <i>Journal of Molecular Catalysis A</i> , 2008, 293, 31-38.	4.8	20
54	Evolution des propriétés texturales, structurales et catalytiques des oxydes mixtes de zirconie sulfatée-silice avec le rapport molaire Zr/Si : influence de la méthode de synthèse. <i>Annales De Chimie: Science Des Matériaux</i> , 2008, 33, 189-201.	0.2	0

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55	Acid and superacid solids for the transformation of n-butane. Reaction Kinetics and Catalysis Letters, 2006, 89, 123-129.	0.6	7
56	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
57	¹ H NMR evidence for the bi-pyridinium nature of the pyridine salt of H ₃ PW ₁₂ O ₄₀ . Catalysis Communications, 2005, 6, 539-541.	1.6	7
58	Influence of the coordination on the catalytic properties of supported W catalysts. Journal of Catalysis, 2004, 226, 25-31.	3.1	107
59	Continuous iC ₄ /C ₄ =Alkylation under iC ₄ Supercritical Conditions over K ₂ .5H _{0.5} PW ₁₂ O ₄₀ and H ⁺ Beta Solid Acids. Industrial & Engineering Chemistry Research, 2004, 43, 6355-6362.	1.8	14
60	Deuterium Solid-State NMR Study of the Dynamic Behavior of Deuterons and Water Molecules in Solid D ₃ PW ₁₂ O ₄₀ . Journal of Physical Chemistry B, 2003, 107, 12438-12443.	1.2	14
61	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
62	Title is missing!. Catalysis Letters, 1998, 56, 35-41.	1.4	36
63	Ammonia adsorption-desorption over the strong solid acid catalyst H ₃ PW ₁₂ O ₄₀ and its Cs ⁺ and NH ₄ ⁺ salts Comparison with sulfated zirconia. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3243-3248.	1.7	41
64	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
65	Characterization of Model Three-Way Catalysts. Journal of Catalysis, 1997, 166, 229-235.	3.1	51
66	Acidic and catalytic properties of Cs _x H _{3-x} PW ₁₂ O ₄₀ heteropolyacid compounds. Catalysis Letters, 1995, 34, 223-235.	1.4	140