Agnieszka M Ruppert

List of Publications by Year
in descending order

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Version: 2024-02-01

51 papers	2,829 citations	304743 22 h-index	189892 50 g-index
58 all docs	58 docs citations	58 times ranked	3305 citing authors

#	Article	IF	Citations
1	Hydrogenolysis Goes Bio: From Carbohydrates and Sugar Alcohols to Platform Chemicals. Angewandte Chemie - International Edition, 2012, 51, 2564-2601.	13.8	746
2	Hydrogenolysis of cellulose combining mineral acids and hydrogenation catalysts. Green Chemistry, 2010, 12, 972.	9.0	232
3	Heteropoly acids as efficient acid catalysts in the one-step conversion of cellulose to sugar alcohols. Chemical Communications, 2011, 47, 576-578.	4.1	219
4	Role of water in metal catalyst performance for ketone hydrogenation: a joint experimental and theoretical study on levulinic acid conversion into gamma-valerolactone. Chemical Communications, 2014, 50, 12450-12453.	4.1	168
5	Glycerol Etherification over Highly Active CaOâ€Based Materials: New Mechanistic Aspects and Related Colloidal Particle Formation. Chemistry - A European Journal, 2008, 14, 2016-2024.	3.3	161
6	Ru catalysts for levulinic acid hydrogenation with formic acid as a hydrogen source. Green Chemistry, 2016, 18, 2014-2028.	9.0	126
7	Titaniaâ€Supported Catalysts for Levulinic Acid Hydrogenation: Influence of Support and its Impact on Î³â€Valerolactone Yield. ChemSusChem, 2015, 8, 1538-1547.	6.8	85
8	Photo-/thermal synergies in heterogeneous catalysis: Towards low-temperature (solar-driven) processing for sustainable energy and chemicals. Applied Catalysis B: Environmental, 2021, 296, 120320.	20.2	66
9	Pt/ZrO2/TiO2 catalysts for selective hydrogenation of crotonaldehyde: Tuning the SMSI effect for optimum performance. Applied Catalysis A: General, 2007, 320, 80-90.	4.3	63
10	Theoretical Study on the Role of Surface Basicity and Lewis Acidity on the Etherification of Glycerol over Alkaline Earth Metal Oxides. Chemistry - A European Journal, 2009, 15, 10864-10870.	3.3	62
11	Optimization of Ni/ZrO2 catalytic performance in thermochemical cellulose conversion for enhanced hydrogen production. Applied Catalysis B: Environmental, 2014, 145, 85-90.	20.2	56
12	Supported goldâ€“nickel nano-alloy as a highly efficient catalyst in levulinic acid hydrogenation with formic acid as an internal hydrogen source. Catalysis Science and Technology, 2018, 8, 4318-4331.	4.1	51
13	Synthesis of long alkyl chain ethers through direct etherification of biomass-based alcohols with 1-octene over heterogeneous acid catalysts. Journal of Catalysis, 2009, 268, 251-259.	6.2	48
14	Development of Heterogeneous Catalysts for Thermo-Chemical Conversion of Lignocellulosic Biomass. Energies, 2017, 10, 545.	3.1	41
15	Enhanced Production of Î³â€Valerolactone with an Internal Source of Hydrogen on Caâ€Modified TiO₂ Supported Ru Catalysts. ChemSusChem, 2019, 12, 639-650.	6.8	35
16	Influence of Ni catalyst support on the product distribution of cellulose fast pyrolysis vapors upgrading. Journal of Analytical and Applied Pyrolysis, 2015, 113, 557-563.	5.5	34
17	Activity of Ni catalysts for hydrogen production via biomass pyrolysis. Kinetics and Catalysis, 2012, 53, 565-569.	1.0	33
18	Influence of ZrO2 on catalytic performance of Ru catalyst in hydrolytic hydrogenation of cellulose towards Î³-valerolactone. International Journal of Hydrogen Energy, 2016, 41, 8688-8695.	7.1	31

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19	Mesoporous silicas as supports for Ni catalyst used in cellulose conversion to hydrogen rich gas. International Journal of Hydrogen Energy, 2016, 41, 8656-8667.	7.1	29
20	Understanding the influence of the composition of the Ag Pd catalysts on the selective formic acid decomposition and subsequent levulinic acid hydrogenation. International Journal of Hydrogen Energy, 2020, 45, 17339-17353.	7.1	29
21	Self-tuned properties of CuZnO catalysts for hydroxymethylfurfural hydrodeoxygenation towards dimethylfuran production. Catalysis Science and Technology, 2020, 10, 658-670.	4.1	25
22	Activity and characterization of Ni catalyst supported on CeO2â€“ZrO2 for thermo-chemical conversion of cellulose. International Journal of Hydrogen Energy, 2016, 41, 8679-8687.	7.1	24
23	Effect of alkali and alkaline earth metals addition on Ni/ZrO2 catalyst activity in cellulose conversion. Journal of Thermal Analysis and Calorimetry, 2016, 126, 103-110.	3.6	22
24	Surface characterization of Miscanthus Ã— giganteus and Willow subjected to torrefaction. Journal of Analytical and Applied Pyrolysis, 2019, 138, 231-241.	5.5	22
25	Catalyst Stabilityâ€"Bottleneck of Efficient Catalytic Pyrolysis. Catalysts, 2021, 11, 265.	3.5	22
26	Wide band gap Ga2O3 as efficient UV-C photocatalyst for gas-phase degradation applications. Environmental Science and Pollution Research, 2017, 24, 26792-26805.	5.3	20
27	Chlorine Influence on Palladium Doped Nickel Catalysts in Levulinic Acid Hydrogenation with Formic Acid as Hydrogen Source. ACS Sustainable Chemistry and Engineering, 2018, 6, 14607-14613.	6.7	19
28	Catalytic performance of a Ni catalyst supported on CeO2, ZrO2 and CeO2â€“ZrO2 in the upgrading of cellulose fast pyrolysis vapors. Comptes Rendus Chimie, 2015, 18, 1223-1228.	0.5	17
29	Application of 1H and 27Al magic angle spinning solid state NMR at 60 kHz for studies of Au and Au-Ni catalysts supported on boehmite/alumina. Solid State Nuclear Magnetic Resonance, 2017, 84, 111-117.	2.3	15
30	Photoactive ZnO Materials for Solar Light-Induced CuxO-ZnO Catalyst Preparation. Materials, 2018, 11, 2260.	2.9	15
31	Highly Efficient Production of DMF from Biomass-Derived HMF on Recyclable Ni-Fe/TiO2 Catalysts. Energies, 2020, 13, 4660.	3.1	15
32	Solvothermal hydrodeoxygenation of hydroxymethylfurfural derived from biomass towards added value chemicals on Ni/TiO2 catalysts. Journal of Supercritical Fluids, 2020, 163, 104827.	3.2	15
33	Hydrogen production from biomass woodchips using Ni/CaOâ€“ZrO2 catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 97-107.	1.7	14
34	Ni-Pd/Î³-Al2O3 Catalysts in the Hydrogenation of Levulinic Acid and Hydroxymethylfurfural towards Value Added Chemicals. Catalysts, 2020, 10, 1026.	3.5	14
35	Impact of the modification method of Ni/ZrO2 catalyst by alkali and alkaline earth metals on its activity in thermo-chemical conversion of cellulose. International Journal of Hydrogen Energy, 2018, 43, 22303-22314.	7.1	13
36	Light-driven synthesis of sub-nanometric metallic Ru catalysts on TiO2. Catalysis Today, 2019, 326, 8-14.	4.4	13

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37	Solar Light Induced Photon-Assisted Synthesis of TiO2 Supported Highly Dispersed Ru Nanoparticle Catalysts. Materials, 2018, 11, 2329.	2.9	12
38	Synthesis of TiO2â€“ZrO2 Mixed Oxides via the Alginate Route: Application in the Ru Catalytic Hydrogenation of Levulinic Acid to Gamma-Valerolactone. Energies, 2019, 12, 4706.	3.1	12
39	TiO₂ supported Ru catalysts for the hydrogenation of succinic acid: influence of the support. Catalysis Science and Technology, 2020, 10, 6860-6869.	4.1	11
40	ToFâ€•SIMS study of the surface of catalysts used in biomass valorization. Surface and Interface Analysis, 2014, 46, 726-730.	1.8	10
41	Impact of Zr Incorporation into the Ni/AlSBA-15 Catalyst on Its Activity in Cellulose Conversion to Hydrogen-Rich Gas. Energy & Fuels, 2017, 31, 14089-14096.	5.1	10
42	UV-A light-assisted gas-phase formic acid decomposition on photo-thermo Ru/TiO2 catalyst. Catalysis Today, 2021, 380, 138-146.	4.4	8
43	The Influence of Carbon Nature on the Catalytic Performance of Ru/C in Levulinic Acid Hydrogenation with Internal Hydrogen Source. Molecules, 2020, 25, 5362.	3.8	6
44	Time-of-flight secondary ion mass spectrometry as a novel method for surface characterization of carbonaceous material formed during thermochemical conversion of cellulose. International Journal of Mass Spectrometry, 2013, 336, 43-46.	1.5	5
45	Surface characterization of lignocellulosic biomass submitted to pyrolysis. Surface and Interface Analysis, 2014, 46, 837-841.	1.8	5
46	Investigation of biomass depolymerization by surface techniques. Surface and Interface Analysis, 2014, 46, 832-836.	1.8	4
47	Influence of the presence of impurities and of the biomass source on the performance of Ru catalysts in the hydrolytic hydrogenation of cellulose towards Î³-valerolactone. Fuel, 2022, 319, 123646.	6.4	4
48	Titelbild: Hydrogenolyse goes Bio: Von Kohlenhydraten und Zuckeralkoholen zu Plattformchemikalien (Angew. Chem. 11/2012). Angewandte Chemie, 2012, 124, 2563-2563.	2.0	0
49	Titania-Supported Catalysts for Levulinic Acid Hydrogenation: Influence of Support and its Impact on Î³-Valerolactone Yield. ChemSusChem, 2015, 8, 1497-1497.	6.8	0
50	Formation of hydrogen-rich gas via conversion of lignocellulosic biomass and its decomposition products. , 2017, , 345-371.		0
51	Enhanced Production of Î³â€•Valerolactone with an Internal Source of Hydrogen on Caâ€•Modified TiO 2 Supported Ru Catalysts. ChemSusChem, 2019, 12, 553.	6.8	0