Miron Landau

List of Publications by Year
in descending order

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42 papers	1,318 citations	361413 20 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	1670 citing authors

#	Article	IF	Citations
1	Effect of potassium on the active phases of Fe catalysts for carbon dioxide conversion to liquid fuels through hydrogenation. Journal of Catalysis, 2017, 348, 29-39.	6.2	141
2	Hydroprocessing of soybean oil on nickel-phosphide supported catalysts. Fuel, 2015, 139, 684-691.	6.4	96
3	Conversion of vegetable oils on Pt/Al2O3/SAPO-11 to diesel and jet fuels containing aromatics. Fuel, 2015, 161, 287-294.	6.4	95
4	Sustainable Production of Green Feed from Carbon Dioxide and Hydrogen. ChemSusChem, 2014, 7, 785-794.	6.8	74
5	A commercially-viable, one-step process for production of green diesel from soybean oil on Pt/SAPO-11. Fuel, 2013, 111, 157-164.	6.4	72
6	Improvement of hydrothermal stability of Pt/SAPO-11 catalyst in hydrodeoxygenationâ€“isomerizationâ€“aromatization of vegetable oil. Journal of Catalysis, 2015, 332, 164-176.	6.2	72
7	Conversion of CO₂, CO, and H₂ in CO₂ Hydrogenation to Fungible Liquid Fuels on Fe-Based Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 13334-13355.	3.7	66
8	Ultradeep Hydrodesulfurization and Adsorptive Desulfurization of Diesel Fuel on Metal-Rich Nickel Phosphides. Industrial & Engineering Chemistry Research, 2009, 48, 5239-5249.	3.7	60
9	From macroalgae to liquid fuel via waste-water remediation, hydrothermal upgrading, carbon dioxide hydrogenation and hydrotreating. Energy and Environmental Science, 2016, 9, 1828-1840.	30.8	59
10	Grain boundary control in nanocrystalline MgO as a novel means for significantly enhancing surface basicity and catalytic activity. Journal of Catalysis, 2009, 263, 196-204.	6.2	55
11	Thermostable sulfated 2â€“4 nm tetragonal ZrO2 with high loading in nanotubes of SBA-15: a superior acidic catalytic material. Chemical Communications, 2003, , 594-595.	4.1	45
12	Control of surface acidity and catalytic activity of Î³-Al2O3 by adjusting the nanocrystalline contact interface. Journal of Catalysis, 2011, 282, 215-227.	6.2	43
13	Characterization of Aluminum Species in Alumina Multilayer Grafted MCM-41 Using 27Al FAM(II)-MQMAS NMR. Journal of Physical Chemistry B, 2003, 107, 724-731.	2.6	41
14	Novel process and catalytic materials for converting CO₂ and H₂ containing mixtures to liquid fuels and chemicals. Faraday Discussions, 2015, 183, 197-215.	3.2	41
15	Novel bifunctional catalysts based on crystalline multi-oxide matrices containing iron ions for CO₂ hydrogenation to liquid fuels and chemicals. Faraday Discussions, 2016, 188, 545-563.	3.2	37
16	Electrospun Feâ€“Alâ€“O Nanobelts for Selective CO₂ Hydrogenation to Light Olefins. ACS Applied Materials & Interfaces, 2020, 12, 24855-24867.	8.0	31
17	Ultradeep Adsorptionâ€'Desulfurization of Gasoline with Ni/Alâ€'SiO₂ Material Catalytically Facilitated by Ethanol. Industrial & Engineering Chemistry Research, 2008, 47, 6904-6916.	3.7	30
18	Fixed-bed catalytic wet peroxide oxidation of phenol with titania and Au/titania catalysts in dark. Catalysis Today, 2015, 241, 63-72.	4.4	29

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19	CO₂ hydrogenation to higher hydrocarbons on K/Feâ€“Alâ€“O spinel catalysts promoted with Si, Ti, Zr, Hf, Mn and Ce. Catalysis Science and Technology, 2017, 7, 4048-4063.	4.1	28
20	Density Functional Theory Study of Sulfur Adsorption at the (001) Surface of Metal-Rich Nickel Phosphides: Effect of the Ni/P Ratio. Journal of Physical Chemistry C, 2010, 114, 13313-13321.	3.1	27
21	Alumina Foam Coated with Nanostructured Chromia Aerogel:Â Efficient Catalytic Material for Complete Combustion of Chlorinated VOC. Industrial & Engineering Chemistry Research, 2006, 45, 7462-7469.	3.7	19
22	Grain boundaries in nanocrystalline catalytic materials as a source of surface chemical functionality. Reviews in Chemical Engineering, 2014, 30, 379-401.	4.4	17
23	Performance of Reverse Water Gas Shift on Coprecipitated and Câ€Templated BaFeâ€Hexaaluminate: The Effect of Fe Loading, Texture, and Promotion with K. ChemCatChem, 2018, 10, 3795-3805.	3.7	13
24	Reverse Water Gas Shift by Chemical Looping with Iron-Substituted Hexaaluminate Catalysts. Catalysts, 2020, 10, 1082.	3.5	13
25	Techno-economic analysis of a sustainable process for converting CO₂ and H₂O to feedstock for fuels and chemicals. Sustainable Energy and Fuels, 2021, 5, 486-500.	4.9	13
26	Grain boundaries at the surface of consolidated MgO nanocrystals and acidâ€“base functionality. Physical Chemistry Chemical Physics, 2013, 15, 14783.	2.8	12
27	Decoration of multiwall carbon nanotubes with nickel nanoparticles: effect of deposition strategy on metal dispersion and performance in the hydrogenation of p-chloroacetophenone. Mendeleev Communications, 2011, 21, 125-128.	1.6	10
28	Hydrogenation of CO₂ on Fe-Based Catalysts: Preferred Route to Renewable Liquid Fuels. Industrial & Engineering Chemistry Research, 2022, 61, 10387-10399.	3.7	9
29	Effect of Surface Chemistry and Crystallographic Parameters of TiO2 Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. Catalysts, 2019, 9, 447.	3.5	8
30	The Sonochemical Insertion of Nanomaterials into Mesostructures. Transactions of the Indian Ceramic Society, 2004, 63, 137-144.	1.0	7
31	Core-Shell Fe2O3@La1â^'xSrxFeO3â^'Î´ Material for Catalytic Oxidations: Coverage of Iron Oxide Core, Oxygen Storage Capacity and Reactivity of Surface Oxygens. Materials, 2021, 14, 7355.	2.9	7
32	Electrospun nanofibers with surface oriented lamellar patterns and their potential applications. Nanoscale, 2020, 12, 12993-13000.	5.6	6
33	Corrugation of the external surface of multiwall carbon nanotubes by catalytic oxidative etching and its effect on their decoration with metal nanoparticles. Journal of Materials Science, 2011, 46, 2162-2172.	3.7	5
34	Effect of surface acidity-basicity balance in modified ZnxZryOz catalyst on its performance in the conversion of hydrous ethanol to hydrocarbons. Journal of Industrial and Engineering Chemistry, 2021, 95, 156-169.	5.8	5
35	Homogeneous Tubularâ€Flow Process for Monoolein Preparation. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 1525-1529.	1.9	4
36	Application of Cs salt of 12-tungstophosphoric acid supported on SBA-15 mesoporous silica in NO x storage. Topics in Catalysis, 2007, 42-43, 203-207.	2.8	3

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37	Alumina as Solidâ€State Ligand in Enhancing the Redox Catalytic Property of Iron Oxide Grafted AlSBAâ€15 towards Arylation of Arene. ChemCatChem, 2018, 10, 4768-4776.	3.7	3
38	Chemical looping reaction of methane with oxygen from La0.8Sr0.2FeO3-Î´ and La0.8Sr0.2FeO3-Î´ -Fe2O3 systems to syngas. Discover Chemical Engineering, 2022, 2, 1.	2.2	3
39	Relationship of Crystals Shape, Aggregation Mode and Surface Purity in Catalytic Wet Peroxide Oxidation of Phenol in Dark with Titania Anatase Nanocrystals. Catalysis Letters, 2018, 148, 3524-3533.	2.6	2
40	Al-Doped magnetite encapsulated in mesoporous carbon: a long-lasting Fenton catalyst for CWPO of phenol in a fixed-bed reactor under mild conditions. Catalysis Science and Technology, 2021, 11, 7368-7379.	4.1	2
41	Eco-Friendly and Sustainable Process for Converting Hydrous Bioethanol to Butanol. Catalysts, 2021, 11, 498.	3.5	2
42	Effects of acyl donor type, catalyst type, and reaction conditions on the activity and selectivity of Friedel-Crafts acylation. Chemical Papers, 2009, 63, .	2.2	1