

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
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44
all docs

44
docs citations

44
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogenation of CO ₂ on Fe-Based Catalysts: Preferred Route to Renewable Liquid Fuels. Industrial & Engineering Chemistry Research, 2022, 61, 10387-10399.	3.7	9
2	Chemical looping reaction of methane with oxygen from La _{0.8} Sr _{0.2} FeO _{3-δ} and La _{0.8} Sr _{0.2} FeO _{3-δ} -Fe ₂ O ₃ systems to syngas. Discover Chemical Engineering, 2022, 2, 1.	2.2	3
3	Techno-economic analysis of a sustainable process for converting CO ₂ and H ₂ O to feedstock for fuels and chemicals. Sustainable Energy and Fuels, 2021, 5, 486-500.	4.9	13
4	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
5	Effect of surface acidity-basicity balance in modified Zn _x Zr _y O _z 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
6	Eco-Friendly and Sustainable Process for Converting Hydrous Bioethanol to Butanol. Catalysts, 2021, 11, 498.	3.5	2
7	Core-Shell Fe ₂ O ₃ @La ^x Sr _x FeO _{3-δ} Material for Catalytic Oxidations: Coverage of Iron Oxide Core, Oxygen Storage Capacity and Reactivity of Surface Oxygens. Materials, 2021, 14, 7355.	2.9	7
8	Reverse Water Gas Shift by Chemical Looping with Iron-Substituted Hexaaluminate Catalysts. Catalysts, 2020, 10, 1082.	3.5	13
9	Electrospun Fe-Al-O Nanobelts for Selective CO ₂ Hydrogenation to Light Olefins. ACS Applied Materials & Interfaces, 2020, 12, 24855-24867.	8.0	31
10	Electrospun nanofibers with surface oriented lamellar patterns and their potential applications. Nanoscale, 2020, 12, 12993-13000.	5.6	6
11	Effect of Surface Chemistry and Crystallographic Parameters of TiO ₂ Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. Catalysts, 2019, 9, 447.	3.5	8
12	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
13	Alumina as Solid-State Ligand in Enhancing the Redox Catalytic Property of Iron Oxide Grafted ALSBA ₁₅ towards Arylation of Arene. ChemCatChem, 2018, 10, 4768-4776.	3.7	3
14	Performance of Reverse Water Gas Shift on Coprecipitated and Templated BaFe-Hexaaluminate: The Effect of Fe Loading, Texture, and Promotion with K. ChemCatChem, 2018, 10, 3795-3805.	3.7	13
15	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
16	CO ₂ hydrogenation to higher hydrocarbons on K/Fe-Al-O spinel catalysts promoted with Si, Ti, Zr, Hf, Mn and Ce. Catalysis Science and Technology, 2017, 7, 4048-4063.	4.1	28
17	Conversion of CO ₂ , CO, and H ₂ in CO ₂ Hydrogenation to Fungible Liquid Fuels on Fe-Based Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 13334-13355.	3.7	66
18	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

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19	Novel bifunctional catalysts based on crystalline multi-oxide matrices containing iron ions for CO ₂ hydrogenation to liquid fuels and chemicals. Faraday Discussions, 2016, 188, 545-563.	3.2	37
20	Homogeneous Tubular Flow Process for Monoolein Preparation. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 1525-1529.	1.9	4
21	Conversion of vegetable oils on Pt/Al ₂ O ₃ /SAPO-11 to diesel and jet fuels containing aromatics. Fuel, 2015, 161, 287-294.	6.4	95
22	Improvement of hydrothermal stability of Pt/SAPO-11 catalyst in hydrodeoxygenation-isomerization-aromatization of vegetable oil. Journal of Catalysis, 2015, 332, 164-176.	6.2	72
23	Novel process and catalytic materials for converting CO ₂ and H ₂ containing mixtures to liquid fuels and chemicals. Faraday Discussions, 2015, 183, 197-215.	3.2	41
24	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
25	Hydroprocessing of soybean oil on nickel-phosphide supported catalysts. Fuel, 2015, 139, 684-691.	6.4	96
26	Grain boundaries in nanocrystalline catalytic materials as a source of surface chemical functionality. Reviews in Chemical Engineering, 2014, 30, 379-401.	4.4	17
27	Sustainable Production of Green Feed from Carbon Dioxide and Hydrogen. ChemSusChem, 2014, 7, 785-794.	6.8	74
28	Grain boundaries at the surface of consolidated MgO nanocrystals and acid-base functionality. Physical Chemistry Chemical Physics, 2013, 15, 14783.	2.8	12
29	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
30	Control of surface acidity and catalytic activity of γ -Al ₂ O ₃ by adjusting the nanocrystalline contact interface. Journal of Catalysis, 2011, 282, 215-227.	6.2	43
31	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
32	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
33	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
34	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
35	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
36	Ultradeep Hydrodesulfurization and Adsorptive Desulfurization of Diesel Fuel on Metal-Rich Nickel Phosphides. Industrial & Engineering Chemistry Research, 2009, 48, 5239-5249.	3.7	60

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37	Ultradeep Adsorption ² Desulfurization of Gasoline with Ni/Al ³⁺ SiO ₂ Material Catalytically Facilitated by Ethanol. Industrial & Engineering Chemistry Research, 2008, 47, 6904-6916.	3.7	30
38	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
39	Alumina Foam Coated with Nanostructured Chromia Aerogel: An Efficient Catalytic Material for Complete Combustion of Chlorinated VOC. Industrial & Engineering Chemistry Research, 2006, 45, 7462-7469.	3.7	19
40	The Sonochemical Insertion of Nanomaterials into Mesostructures. Transactions of the Indian Ceramic Society, 2004, 63, 137-144.	1.0	7
41	Characterization of Aluminum Species in Alumina Multilayer Grafted MCM-41 Using ²⁷ Al FAIMS-QMAMAS NMR. Journal of Physical Chemistry B, 2003, 107, 724-731.	2.6	41
42	Thermostable sulfated 2.4 nm tetragonal ZrO ₂ with high loading in nanotubes of SBA-15: a superior acidic catalytic material. Chemical Communications, 2003, , 594-595.	4.1	45