

Luca Di Felice

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

586
citations

687363

13
h-index

794594

19
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22
all docs

22
docs citations

22
times ranked

729
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron and nickel doped alkaline-earth catalysts for biomass gasification with simultaneous tar reformation and CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5296-5310.	7.1	115
2	H ₂ production via ammonia decomposition in a catalytic membrane reactor. <i>Fuel Processing Technology</i> , 2021, 216, 106772.	7.2	66
3	Catalytic biomass gasification: Simultaneous hydrocarbons steam reforming and CO ₂ capture in a fluidised bed reactor. <i>Chemical Engineering Journal</i> , 2009, 154, 375-383.	12.7	61
4	Biomass Gasification with Catalytic Tar Reforming: A Model Study into Activity Enhancement of Calcium- and Magnesium-Oxide-Based Catalytic Materials by Incorporation of Iron. <i>Energy & Fuels</i> , 2010, 24, 4034-4045.	5.1	59
5	Au-Rh and Au-Pd nanocatalysts supported on rutile titania nanorods: structure and chemical stability. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28112-28120.	2.8	42
6	Ultra-pure hydrogen production via ammonia decomposition in a catalytic membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21220-21230.	7.1	29
7	Development of Ni- and CaO-based mono- and bi-functional catalyst and sorbent materials for Sorption Enhanced Steam Methane Reforming: Performance over 200 cycles and attrition tests. <i>Fuel Processing Technology</i> , 2019, 195, 106160.	7.2	27
8	Methane partial oxidation over a LaCr _{0.85} Ru _{0.15} O ₃ catalyst: Characterization, activity tests and kinetic modeling. <i>Applied Catalysis A: General</i> , 2014, 486, 239-249.	4.3	26
9	Development of Cost Effective and High Performance Composite for CO ₂ Capture in Ca-Cu Looping Process. <i>Energy Procedia</i> , 2017, 114, 211-219.	1.8	24
10	Decalin ring opening over NiWS/SiO ₂ -Al ₂ O ₃ catalysts in the presence of H ₂ S. <i>Applied Catalysis A: General</i> , 2016, 512, 43-51.	4.3	23
11	Combined sorbent and catalyst material for sorption enhanced reforming of methane under cyclic regeneration in presence of H ₂ O and CO ₂ . <i>Fuel Processing Technology</i> , 2019, 183, 35-47.	7.2	22
12	CO ₂ capture with calcined dolomite: the effect of sorbent particle size. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 149-161.	4.6	20
13	Chemical looping with oxygen uncoupling (CLOU) and chemical looping combustion (CLC) using copper-enriched oxygen carriers supported on fly ash. <i>Fuel Processing Technology</i> , 2017, 168, 123-130.	7.2	20
14	Effect of H ₂ S on the mechanisms of naphthene ring opening and isomerization over Ir/NaY: A comparative study of decalin, perhydroindan and butylcyclohexane hydroconversions. <i>Applied Catalysis A: General</i> , 2018, 550, 274-283.	4.3	11
15	Performance and operating limits of a sorbent-catalyst system for sorption-enhanced reforming (SER) in a fluidized bed reactor. <i>Chemical Engineering Science</i> , 2019, 205, 94-105.	3.8	11
16	Understanding the Mechanisms of Decalin Hydroprocessing Using Comprehensive Two-Dimensional Chromatography. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12516-12523.	3.7	10
17	Fixed Bed Reactor Validation of a Mayenite Based Combined Calcium-Copper Material for Hydrogen Production through Ca-Cu Looping. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14664-14677.	3.7	7
18	The effect of Copper(II) oxide loading and precursor on the cyclic stability of combined mayenite based materials for calcium copper looping technology. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12604-12616.	7.1	6

#	ARTICLE	IF	CITATIONS
19	A calcium zirconate based combined material for calcium-copper chemical looping technology. International Journal of Greenhouse Gas Control, 2020, 95, 102953.	4.6	6
20	CO2 Capture by CaO-Based Sorbents and Sorption Enhanced Reaction Systems. , 2013, , 603-625.		1
21	Iron based catalyst for hydrocarbons catalytic reforming: A metal-support interaction study to interpret reactivity data. Studies in Surface Science and Catalysis, 2010, , 421-424.	1.5	0