

Rafal Pelka

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

384
citations

11
h-index

18
g-index

37
ext. papers

429
ext. citations

3.3
avg, IF

3.63
L-index

#	Paper	IF	Citations
34	Catalytic Ammonia Decomposition Over Fe/Fe ₄ N. <i>Catalysis Letters</i> , 2009 , 128, 72-76	2.8	58
33	Study of the Kinetics of Ammonia Synthesis and Decomposition on Iron and Cobalt Catalysts. <i>Catalysis Letters</i> , 2009 , 129, 119-123	2.8	40
32	Studies of the kinetics of ammonia decomposition on promoted nanocrystalline iron using gas phases of different nitriding degree. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4531-4	2.8	33
31	Studies of the kinetics of two parallel reactions: ammonia decomposition and nitriding of iron catalyst. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 411-6	2.8	33
30	Studies of the Kinetics of Reaction Between Iron Catalysts and Ammonia Nitriding of Nanocrystalline Iron with Parallel Catalytic Ammonia Decomposition. <i>Topics in Catalysis</i> , 2009 , 52, 1506-1516	2.3	32
29	Poisoning of iron catalyst by sulfur. <i>Catalysis Today</i> , 2007 , 124, 43-48	5.3	29
28	Catalytic Ammonia Decomposition during Nanocrystalline Iron Nitriding at 475 °C with NH ₃ /H ₂ Mixtures of Different Nitriding Potentials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6178-6185	3.8	25
27	The effect of iron nanocrystallites size in catalysts for ammonia synthesis on nitriding reaction and catalytic ammonia decomposition. <i>Open Chemistry</i> , 2011 , 9, 240-244	1.6	14
26	Hysteresis phenomenon in a reaction system of nanocrystalline iron and a mixture of ammonia and hydrogen. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25796-25800	3.6	11
25	Measurements of the relative number of active sites on iron catalyst for ammonia synthesis by hydrogen desorption. <i>Catalysis Today</i> , 2011 , 169, 97-101	5.3	11
24	Chaotic dynamics of a cascade of plug flow tubular reactors (PFTRs) with division of recirculating stream. <i>Chaos, Solitons and Fractals</i> , 2005 , 23, 1211-1219	9.3	11
23	Study of the Iron Catalyst for Ammonia Synthesis by Chemical Potential Programmed Reaction Method. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8548-8556	3.8	10
22	A New Method for Determining the Nanocrystallite Size Distribution in Systems Where Chemical Reaction between Solid and a Gas Phase Occurs. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	9
21	Size-Dependent Transformation of Fe into Fe ₄ N in Nanocrystalline the Fe-NH ₃ -H ₂ System. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17989-17995	3.8	8
20	Modelling of nanocrystalline iron nitriding process Influence of specific surface area. <i>Chemical Papers</i> , 2011 , 65,	1.9	8
19	Studies of the Oxidation of Nanocrystalline Iron with Oxygen by means of TG, MS, and XRD Methods. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13992-13996	3.8	6
18	Studies of magnetic properties of nanocrystalline iron of different sizes of nanocrystallites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 443, 324-333	2.8	5

17	A method of determining nanoparticle size distribution in iron ammonia synthesis catalyst by measuring mass changes during the nitriding process. <i>Catalysis Today</i> , 2017 , 286, 118-123	5.3	5
16	Extended Surface of Materials as a Result of Chemical Equilibrium. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-5	3.2	5
15	Influence of chemical composition of nanocrystalline iron surface on the rates of two parallel reactions: nitriding and catalytic decomposition of ammonia. <i>Chemical Papers</i> , 2012 , 66,	1.9	5
14	Characterization of FeCo based catalyst for ammonia decomposition. The effect of potassium oxide. <i>Polish Journal of Chemical Technology</i> , 2014 , 16, 111-116	1	4
13	The Temperature Effect on Iron Nanocrystallites Size Distribution. <i>Current Nanoscience</i> , 2013 , 9, 711-716	1.4	4
12	Adsorption of Ni ²⁺ from aqueous solution by magnetic Fe@graphite nano-composite. <i>Polish Journal of Chemical Technology</i> , 2016 , 18, 96-103	1	4
11	Studies of phase transitions occurring in the system of nanocrystalline Fe/NH ₃ /H ₂ . <i>Materials Chemistry and Physics</i> , 2019 , 237, 121853	4.4	3
10	Oscillatory Kinetics in the Process of Reduction of Nanocrystalline Iron Nitride α -Fe ₄ N. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14712-14716	3.8	3
9	The possibility of implementation of spent iron catalyst for ammonia synthesis. <i>Polish Journal of Chemical Technology</i> , 2009 , 11, 28-33	1	3
8	Magnetic characterization of nanocrystalline iron samples with different size distributions. <i>Materials Science-Poland</i> , 2014 , 32, 423-429	0.6	1
7	Study of the kinetics of carburisation and nitriding of nanocrystalline iron. <i>Journal of Physics: Conference Series</i> , 2009 , 146, 012008	0.3	1
6	Numerical analysis of behaviour of tubular reactors with different residence time and variable division of the recirculation stream. <i>Chaos, Solitons and Fractals</i> , 2007 , 33, 1204-1212	9.3	1
5	Utilization of spent iron catalyst for ammonia synthesis. <i>Polish Journal of Chemical Technology</i> , 2007 , 9, 108-113	1	1
4	FMR study of samples obtained by nitriding and nitrides reduction of nanocrystalline iron. <i>Materials Science-Poland</i> , 2016 , 34, 6-12	0.6	1
3	Investigation of the temperature changes of the divided recirculation stream on the dynamics of the tubular reactor cascade. <i>Chaos, Solitons and Fractals</i> , 2009 , 40, 1680-1687	9.3	0
2	Study of Phase Transitions Occurring in a Catalytic System of ncFe-NH ₃ /H ₂ with Chemical Potential Programmed Reaction (CPPR) Method Coupled with In Situ XRD. <i>Catalysts</i> , 2021 , 11, 183	4	0
1	Study of Phase Transformation Processes Occurring in the Nanocrystalline Iron/Ammonia/Hydrogen System by the Magnetic Permeability Measurement Method. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7704-7710	3.8	0