Izabela Czekaj

List of Publications by Year
in descending order

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42 papers	1,255 citations	430754 18 h-index	360920 35 g-index
44 all docs	44 docs citations	44 times ranked	2042 citing authors

#	Article	IF	Citations
1	Characterization of surface processes at the Ni-based catalyst during the methanation of biomass-derived synthesis gas: X-ray photoelectron spectroscopy (XPS). Applied Catalysis A: General, 2007, 329, 68-78.	2.2	255
2	Chemical deactivation of V2O5/WO3â€“TiO2 SCR catalysts by additives and impurities from fuels, lubrication oils and urea solution. Applied Catalysis B: Environmental, 2008, 77, 228-236.	10.8	243
3	Sulphur poisoning of Ni catalysts in the SNG production from biomass: A TPO/XPS/XAS study. Applied Catalysis A: General, 2009, 362, 121-128.	2.2	106
4	Electrochemical Stability of Imidazolium Based Ionic Liquids Containing Cyano Groups in the Anion: A Cyclic Voltammetry, XPS and DFT Study. Journal of the Electrochemical Society, 2012, 159, H611-H615.	1.3	67
5	SnO₂ Model Electrode Cycled in Li-Ion Battery Reveals the Formation of Li₂SnO₃ and Li₈SnO₆ Phases through Conversion Reactions. ACS Applied Materials & Interfaces, 2018, 10, 8712-8720.	4.0	59
6	Evaporation of Urea at Atmospheric Pressure. Journal of Physical Chemistry A, 2011, 115, 2581-2589.	1.1	48
7	The Virtue of Defects: Stable Bromine Production by Catalytic Oxidation of Hydrogen Bromide on Titanium Oxide. Angewandte Chemie - International Edition, 2014, 53, 8628-8633.	7.2	38
8	Electronic structure and oxygen vacancies in PdO and ZnO: validation of DFT models. Physical Chemistry Chemical Physics, 2011, 13, 15947.	1.3	35
9	Modelling Catalyst Surfaces Using DFT Cluster Calculations. International Journal of Molecular Sciences, 2009, 10, 4310-4329.	1.8	30
10	Adsorption and catalytic thermolysis of gaseous urea on anatase TiO2 studied by HPLC analysis, DRIFT spectroscopy and DFT calculations. Applied Catalysis B: Environmental, 2013, 134-135, 316-323.	10.8	30
11	Nickel deposition on Î³-Al2O3 model catalysts: An experimental and theoretical investigation. Surface Science, 2009, 603, 2210-2217.	0.8	29
12	DFT calculations, DRIFT spectroscopy and kinetic studies on the hydrolysis of isocyanic acid on the TiO2-anatase (101) surface. Journal of Molecular Catalysis A, 2008, 280, 68-80.	4.8	28
13	Sulphur poisoning of Ni catalysts used in the SNG production from biomass: Computational studies. Catalysis Today, 2011, 176, 429-432.	2.2	23
14	DFT modeling of the hydrolysis of isocyanic acid over the TiO2 anatase (101) surface: Adsorption of HNCO species. Surface Science, 2006, 600, 5158-5167.	0.8	20
15	Decomposition of Urea in the SCR Process: Combination of DFT Calculations and Experimental Results on the Catalytic Hydrolysis of Isocyanic Acid on TiO2 and Al2O3. Topics in Catalysis, 2009, 52, 1740-1745.	1.3	19
16	CH4 combustion cycles at Pd/Al2O3 â€“ important role of support and oxygen access. Physical Chemistry Chemical Physics, 2013, 15, 11368.	1.3	19
17	X-ray Absorption and Emission Spectroscopy of CrIII (Hydr)Oxides: Analysis of the K-Pre-Edge Region. Journal of Physical Chemistry A, 2009, 113, 12171-12178.	1.1	18
18	DFT studies of oxidation routes for Pd9 clusters supported on Î³-alumina. Physical Chemistry Chemical Physics, 2012, 14, 10243.	1.3	18

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19	The Cr X-ray absorption K-edge structure of poorly crystalline Fe(III)-Cr(III)-oxyhydroxides. American Mineralogist, 2010, 95, 1202-1213.	0.9	17
20	Solving the puzzle of Li₄Ti₅O₁₂ surface reactivity in aprotic electrolytes in Li-ion batteries by nanoscale XPEEM spectromicroscopy. Journal of Materials Chemistry A, 2018, 6, 3534-3542.	5.2	17
21	Ru/Active Carbon Catalyst: Improved Spectroscopic Data Analysis by Density Functional Theory. Journal of Physical Chemistry C, 2013, 117, 26588-26597.	1.5	16
22	Can Energetic Terahertz Pulses Initiate Surface Catalytic Reactions on the Picosecond Time Scale?. Chimia, 2011, 65, 323.	0.3	14
23	Design of Co, Cu and Feâ€“BEA Zeolite Catalysts for Selective Conversion of Lactic Acid into Acrylic Acid. Catalysis Letters, 2019, 149, 3349-3360.	1.4	12
24	Design, synthesis and molecular modelling of new bulky Fananserin derivatives with altered pharmacological profile as potential antidepressants. Bioorganic and Medicinal Chemistry, 2019, 27, 3396-3407.	1.4	12
25	Lactic acid conversion into acrylic acid and other products over natural and synthetic zeolite catalysts: theoretical and experimental studies. Catalysis Today, 2022, 387, 172-185.	2.2	11
26	Theoretical studies of HNCO adsorption at stabilized iron complexes in the ZSM-5 framework. Microporous and Mesoporous Materials, 2013, 169, 97-102.	2.2	10
27	Investigation of Li-Ion Solvation in Carbonate Based Electrolytes Using Near Ambient Pressure Photoemission. Topics in Catalysis, 2016, 59, 628-634.	1.3	10
28	Characteristics of the structure of natural zeolites and their potential application in catalysis and adsorption processes. Czasopismo Techniczne, 2020, , 1-20.	0.2	9
29	Experimental and Theoretical Studies of Sonically Prepared Cuâ€“Y, Cuâ€“USY and Cuâ€“ZSM-5 Catalysts for SCR deNOx. Catalysts, 2021, 11, 824.	1.6	8
30	Comparison of Synthetic and Natural Zeolite Catalystsâ€™ Behavior in the Production of Lactic Acid and Ethyl Lactate from Biomass-Derived Dihydroxyacetone. Catalysts, 2021, 11, 1006.	1.6	6
31	Modelling of porous metal-organic framework (MOF) materials used in catalysis. Czasopismo Techniczne, 2020, , 1-24.	0.2	4
32	Nickel Deposition on Î³-Al₂O₃: Modelling Metal Particle Behaviour at the Support. Chimia, 2009, 63, 193-196.	0.3	3
33	Raw Biogas as Feedstock for the OCM Process. Catalysts, 2022, 12, 54.	1.6	3
34	Catalytic Transformation of Biomass-Derived Glucose by One-Pot Method into Levulinic Acid over Na-BEA Zeolite. Processes, 2022, 10, 223.	1.3	3
35	Theoretical Studies of DENOx SCR over Cu-, Fe- and Mn-FAU Catalysts. Chemistry and Chemical Technology, 2021, 15, 16-25.	0.2	2
36	Theoretical Studies on the Mechanism of deNOx Process in Cuâ€“Zn Bimetallic Systemâ€”Comparison of FAU and MFI Zeolites. Molecules, 2022, 27, 300.	1.7	2

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37	The effect of the presence of a hydroxyl group on the vibration frequencies of NO and NH3 adsorbates on Cu-Zn bimetallic nanoparticles in ZSM-5 and FAU zeolite â€“ a DFT study. Journal of Molecular Structure, 2022, 1255, 132440.	1.8	2
38	Remarkable Structural Modifications of Tialite Solid Solutions Obtained by Different Methods. Materials, 2022, 15, 3981.	1.3	2
39	Methane Catalytic Combustion on Pd9/?-Al2O3 with Different Degrees of Pd Oxidation. Chimia, 2013, 67, 271.	0.3	1
40	Vibrational Structure of Selected Compounds Derived from Biomass: Lignin Dimers, Selected Aldopentoses and Aldohexoses. Journal of Chemistry and Chemical Engineering, 2018, 12, .	0.3	1
41	Frontispiece: The Virtue of Defects: Stable Bromine Production by Catalytic Oxidation of Hydrogen Bromide on Titanium Oxide. Angewandte Chemie - International Edition, 2014, 53, .	7.2	0
42	Nano-design of Zeolites Biomass Wastes Valorization: Dehydration of Lactic Acid into Acrylic Acid. Inzynieria Mineralna, 2021, 1, .	0.2	0