

# Izabela Sobczak

## List of Publications by Year in descending order

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71  
papers

1,793  
citations

218677

26  
h-index

302126

39  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative properties of niobium-containing mesoporous silica catalysts. <i>Catalysis Today</i> , 2001, 70, 169-181.	4.4	100
2	Search for reactive intermediates in catalytic oxidation with hydrogen peroxide over amorphous niobium(V) and tantalum(V) oxides. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 288-296.	20.2	90
3	The role of niobium component in heterogeneous catalysts. <i>Catalysis Today</i> , 2017, 285, 211-225.	4.4	83
4	Glycerol oxidation on gold catalysts supported on group five metal oxides – A comparative study with other metal oxides and carbon based catalysts. <i>Catalysis Today</i> , 2010, 158, 121-129.	4.4	78
5	Nb-containing mesoporous molecular sieves – a possible application in the catalytic processes. <i>Microporous and Mesoporous Materials</i> , 2000, 35-36, 195-207.	4.4	68
6	Catalytic performance of niobium species in crystalline and amorphous solids – Gas and liquid phase oxidation. <i>Applied Catalysis A: General</i> , 2011, 391, 194-204.	4.3	62
7	Catalytic properties of alkali metal-modified oxide supports for the Knoevenagel condensation: Kinetic aspects. <i>Catalysis Today</i> , 2009, 142, 278-282.	4.4	61
8	The ability of Nb <sub>2</sub> O <sub>5</sub> and Ta <sub>2</sub> O <sub>5</sub> to generate active oxygen in contact with hydrogen peroxide. <i>Catalysis Communications</i> , 2013, 37, 85-91.	3.3	56
9	Template synthesis and characterisation of MCM-41 mesoporous molecular sieves containing various transition metal elements – TME (Cu, Fe, Nb, V, Mo). <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 571-581.	4.0	54
10	Cu state and behaviour in MCM-41 mesoporous molecular sieves modified with copper during the synthesis – comparison with copper exchanged materials. <i>Microporous and Mesoporous Materials</i> , 2004, 74, 23-36.	4.4	54
11	Bimetallic AgCu/SBA-15 System: The Effect of Metal Loading and Treatment of Catalyst on Surface Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12796-12810.	3.1	49
12	Au – Cu on Nb <sub>2</sub> O <sub>5</sub> and Nb/MCF supports – Surface properties and catalytic activity in glycerol and methanol oxidation. <i>Catalysis Today</i> , 2015, 254, 72-82.	4.4	43
13	Characterization of alumina- and niobia-supported gold catalysts used for oxidation of glycerol. <i>Applied Catalysis A: General</i> , 2010, 384, 70-77.	4.3	42
14	Amino-grafted metallosilicate MCM-41 materials as basic catalysts for eco-friendly processes. <i>Catalysis Today</i> , 2010, 152, 119-125.	4.4	42
15	Preparation and characterisation of Pt containing NbMCM-41 mesoporous molecular sieves addressed to catalytic NO reduction by hydrocarbons. <i>Microporous and Mesoporous Materials</i> , 2005, 78, 103-116.	4.4	41
16	Zeolite MCM-22 Modified with Au and Cu for Catalytic Total Oxidation of Methanol and Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2147-2159.	3.1	39
17	The role of chlorine in the generation of catalytic active species located in Au-containing MCM-41 materials. <i>Journal of Catalysis</i> , 2007, 245, 259-266.	6.2	37
18	Physicochemical Properties and Catalytic Activity of Cu – NbZSM-5 – A Comparative Study with Cu – AlZSM-5. <i>Journal of Catalysis</i> , 2002, 207, 101-112.	6.2	32

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19	Variability of surface components in gold catalysts – The role of hydroxyls and state of gold on activity and selectivity of Au-Nb <sub>2</sub> O <sub>5</sub> and Au-ZnNb <sub>2</sub> O <sub>6</sub> in methanol oxidation. <i>Journal of Catalysis</i> , 2017, 354, 100-112.	6.2	32
20	Modification of acid–base properties of alkali metals containing catalysts by the application of various supports. <i>Applied Catalysis A: General</i> , 2006, 303, 121-130.	4.3	31
21	Gold Grafted to Mesoporous Silica Surfaces, a Molecular Picture. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13855-13859.	3.1	31
22	Amino-grafted mesoporous materials based on MCF structure involved in the quinoline synthesis. Mechanistic insights. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 38-46.	4.8	31
23	The effect of the preparation procedure on the morphology, texture and photocatalytic properties of ZnO. <i>Materials Research Bulletin</i> , 2017, 85, 35-46.	5.2	30
24	Gold, vanadium and niobium containing MCM-41 materials – Catalytic properties in methanol oxidation. <i>Catalysis Today</i> , 2008, 139, 188-195.	4.4	28
25	The Formation of Gold Clusters Supported on Mesoporous Silica Material Surfaces: A Molecular Picture. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9002-9007.	3.1	27
26	Photochromism and hydrolysis of aromatic Schiff base N,N'-bis(salicylidene)-p-phenylenediamine (BSP) studied in heterogeneous environments. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 63, 211-218.	1.6	26
27	Organosilanes affecting the structure and formation of mesoporous cellular foams. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 143-152.	4.4	26
28	The possible use of alkali metal modified NbMCM-41 in the synthesis of 1,4-dihydropyridine intermediates. <i>Catalysis Today</i> , 2009, 142, 303-307.	4.4	25
29	Au containing mesostructured cellular foams NbMCF and ZrMCF in selective oxidation of methanol to formaldehyde. <i>Journal of Molecular Catalysis A</i> , 2014, 390, 114-124.	4.8	25
30	The effect of copper and silver on the properties of Au-ZnO catalyst and its activity in glycerol oxidation. <i>Applied Surface Science</i> , 2018, 444, 197-207.	6.1	25
31	Sonocatalysis in solvent-free conditions: An efficient eco-friendly methodology to prepare N-alkyl imidazoles using amino-grafted NbMCM-41. <i>Catalysis Today</i> , 2009, 142, 283-287.	4.4	24
32	The effect of AuAg–MCF and AuAg–NbMCF catalysts pretreatment on the gold–silver alloy formation and the catalytic behavior in selective methanol oxidation with oxygen. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 137-148.	4.8	22
33	Gold based on SBA-15 supports – Promising catalysts in base-free glucose oxidation. <i>Chemical Engineering Journal</i> , 2021, 413, 127548.	12.7	22
34	Theoretical and experimental insight into zinc loading on mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 199-205.	4.4	20
35	NO and C <sub>3</sub> H <sub>6</sub> adsorption and coadsorption in oxygen excess – A comparative study of different type zeolites modified with gold. <i>Catalysis Today</i> , 2011, 176, 393-398.	4.4	18
36	The role of niobium in MCM-41 supported with Pt and Au – A comparative study of physicochemical and catalytic properties. <i>Catalysis Today</i> , 2009, 142, 258-266.	4.4	17

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37	Mesoporous niobiosilicate NbMCF modified with alkali metals in the synthesis of chromene derivatives. <i>Catalysis Today</i> , 2016, 277, 133-142.	4.4	17
38	Cu <sub>x</sub> CryO <sub>z</sub> mixed oxide as a promising support for gold – The effect of Au loading method on the effectiveness in oxidation reactions. <i>Catalysis Today</i> , 2012, 187, 48-55.	4.4	16
39	Spectroscopic surface characterization of MoVNbTe nanostructured catalysts for the partial oxidation of propane. <i>Catalysis Today</i> , 2012, 187, 195-200.	4.4	16
40	Isomerization of Eugenol Under Ultrasound Activation Catalyzed by Alkali Modified Mesoporous NbMCM-41. <i>Topics in Catalysis</i> , 2010, 53, 179-186.	2.8	15
41	Surface properties of platinum catalysts based on various nanoporous matrices. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 345-354.	4.4	14
42	The effect of zinc and copper in gold catalysts supported on MCF cellular foams on surface properties and catalytic activity in methanol oxidation. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 97-108.	4.4	14
43	Efficient isomerization of safrole by amino-grafted MCM-41 materials as basic catalysts. <i>Catalysis Today</i> , 2012, 179, 159-163.	4.4	13
44	Development of multifunctional gold, copper, zinc, niobium containing MCF catalysts – Surface properties and activity in methanol oxidation. <i>Microporous and Mesoporous Materials</i> , 2017, 243, 339-350.	4.4	13
45	Effect of hydrogen sulphide on nitric oxide adsorption and decomposition on Cu-containing molecular sieves. <i>Applied Catalysis B: Environmental</i> , 2000, 28, 197-207.	20.2	12
46	NO adsorption combined with FTIR spectroscopy as a useful tool for characterization of niobium species in crystalline and amorphous molecular sieves. <i>Catalysis Today</i> , 2012, 192, 149-153.	4.4	12
47	WGS and reforming properties of NbMCM-41 materials. <i>Catalysis Today</i> , 2006, 114, 281-286.	4.4	11
48	FTIR study of NO, C <sub>3</sub> H <sub>6</sub> and O <sub>2</sub> adsorption and interaction on gold modified MCM-41 materials. <i>Catalysis Today</i> , 2008, 137, 203-208.	4.4	11
49	Tantalum vs Niobium MCF nanocatalysts in the green synthesis of chromene derivatives. <i>Catalysis Today</i> , 2019, 325, 47-52.	4.4	11
50	The role of gold dopant in AP-Nb/MCF and AP-MCF on the Knoevenagel condensation of ethyl cyanoacetate with benzaldehyde and 2,4-dichlorobenzaldehyde. <i>Catalysis Today</i> , 2019, 325, 81-88.	4.4	10
51	Gold-containing Beta zeolite in base-free glucose oxidation – The role of Au deposition procedure and zeolite dopants. <i>Catalysis Today</i> , 2021, 382, 48-60.	4.4	10
52	Pt and Nb species on various supports: An alternative to current materials for NO <sub>x</sub> removal. <i>Catalysis Today</i> , 2007, 119, 78-82.	4.4	9
53	Impact of Support (MCF, ZrO <sub>2</sub> , ZSM-5) on the Efficiency of Ni Catalyst in High-Temperature Conversion of Lignocellulosic Biomass to Hydrogen-Rich Gas. <i>Materials</i> , 2019, 12, 3792.	2.9	9
54	Methanol oxidation on AuAg-Zn/MCM-36 – The effect of catalyst components and pretreatment. <i>Catalysis Today</i> , 2020, 354, 123-132.	4.4	9

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55	Novel AuNbMCM-41 catalyst for methanol oxidation. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1300-1306.	1.5	8
56	The effect of the calcium dopant on the activity and selectivity of gold catalysts supported on SBA-15 and Nb-containing SBA-15 in methanol oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 2242-2260.	4.1	8
57	The influence of Zr presence in short channel SBA-15 on state and activity of metallic modifiers (Ag, Tj ETQq1 1 0.784314 rgBT /Over	4.4	7
58	The effect of support properties on n-octanol oxidation performed on gold-silver catalysts supported on MgO, ZnO and Nb <sub>2</sub> O <sub>5</sub> . <i>Molecular Catalysis</i> , 2020, 482, 110674.	2.0	7
59	Modification of Gold Zeolitic Supports for Catalytic Oxidation of Glucose to Gluconic Acid. <i>Materials</i> , 2021, 14, 5250.	2.9	7
60	The role of pillaring in MCM-22 on the dispersion of noble metals and catalytic activity. <i>Materials Research Bulletin</i> , 2016, 76, 169-178.	5.2	6
61	Bimetallic gold-silver catalysts based on ZnO and Zn/SBA-15 – The effect of various treatments on surface and catalytic properties. <i>Catalysis Today</i> , 2020, 356, 110-121.	4.4	6
62	Gold and gold-iron modified zeolites – Towards the adsorptive deodorisation. <i>Journal of Hazardous Materials</i> , 2010, 179, 444-452.	12.4	5
63	Application of ToF-SIMS to the study of surfactant removal from AuNbMCM-41 and AuMCM-41 materials. <i>International Journal of Mass Spectrometry</i> , 2010, 289, 138-143.	1.5	5
64	Gold-vanadium-niobium catalysts in environmental protection – adsorption and interaction of NO, C <sub>3</sub> H <sub>6</sub> and O <sub>2</sub> – FT-IR study. <i>Adsorption</i> , 2009, 15, 145-155.	3.0	4
65	Size of Au-Nanoparticles Supported on Mesoporous Cellular Foams Studied by the Pair Distribution Function Technique. <i>Crystal Growth and Design</i> , 2016, 16, 5985-5993.	3.0	4
66	Structure and Reactivity of Zeolites Containing Group Five Elements (V, Nb, Ta). <i>Structure and Bonding</i> , 2017, , 179-249.	1.0	4
67	Gold-copper catalysts supported on SBA-15 with long and short channels – Characterization and the use in propene oxidation. <i>Catalysis Today</i> , 2020, 356, 155-164.	4.4	3
68	Microwave-Assisted Base-Free Oxidation of Glucose with H <sub>2</sub> O <sub>2</sub> on Gold- and Manganese-Containing SBA-15 – Insight into Factors Affecting the Reaction Pathway. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4639.	4.1	3
69	The effect of alkali metal on the surface properties of potassium doped Au-Beta zeolites. <i>Materials Research Bulletin</i> , 2013, 48, 795-801.	5.2	2
70	Application of modified zeolites and mesoporous materials for deodorization. <i>Studies in Surface Science and Catalysis</i> , 2008, , 555-560.	1.5	1
71	Influence of preparation conditions on properties of gold loaded on the supports containing group five elements. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 333-337.	1.5	0