

# Jacek Gurgul

## List of Publications by Citations

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85  
papers

2,218  
citations

22  
h-index

45  
g-index

94  
ext. papers

2,478  
ext. citations

5.5  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
85	XPS and NMR studies of phosphoric acid activated carbons. <i>Carbon</i> , <b>2008</b> , 46, 2113-2123	10.4	591
84	Photocatalytic activity of titanium dioxide modified by silver nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1945-53	9.5	141
83	Catalytic combustion of toluene over mixed Cu/Mn oxides. <i>Catalysis Today</i> , <b>2007</b> , 119, 321-326	5.3	78
82	Influence of iron state and acidity of zeolites on the catalytic activity of FeHBEA, FeHZSM-5 and FeHMOR in SCR of NO with NH <sub>3</sub> and N <sub>2</sub> O decomposition. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 203, 73-85	5.3	77
81	Effect of Co content on the catalytic activity of CoSiBEA zeolite in the selective catalytic reduction of NO with ethanol: Nature of the cobalt species. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 75, 239-248	21.8	77
80	The antimonide oxides REZnSbO and REMnSbO (RE = Ce, Pr) – An XPS study. <i>Solid State Sciences</i> , <b>2013</b> , 17, 122-127	3.4	72
79	Effect of Cu content on the catalytic activity of CuSiBEA zeolite in the SCR of NO by ethanol: Nature of the copper species. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 217-224	21.8	61
78	Do Cu(II) ions need Al atoms in their environment to make CuSiBEA active in the SCR of NO by ethanol or propane? A spectroscopy and catalysis study. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 85, 131-138	21.8	60
77	Identification of iron species in FeSiBEA by DR UV-vis, XPS and Mössbauer spectroscopy: Influence of Fe content. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 168, 1-6	5.3	59
76	Selective catalytic reduction of NO by ethanol: Speciation of iron and structure-properties relationship in FeSiBEA zeolite. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 113-122	21.8	55
75	Hydrogenation of cinnamaldehyde in the presence of PdAu/C catalysts prepared by the reverse water-in-oil microemulsion method. <i>Applied Catalysis A: General</i> , <b>2014</b> , 487, 1-15	5.1	44
74	The role of alkali modifiers (Li, Na, K, Cs) in activity of 2%Pd/Al <sub>2</sub> O <sub>3</sub> catalysts for 2-ethyl-9,10-anthraquinone hydrogenation. <i>Applied Catalysis A: General</i> , <b>2011</b> , 402, 121-131	5.1	44
73	The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N <sub>2</sub> O decomposition. <i>Catalysis Today</i> , <b>2014</b> , 235, 210-225	5.3	43
72	Transesterification reaction of triglycerides in the presence of Ag-doped H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> . <i>Journal of Molecular Catalysis A</i> , <b>2010</b> , 316, 30-44		40
71	BEA zeolite modified with iron as effective catalyst for N <sub>2</sub> O decomposition and selective reduction of NO with ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 138-139, 434-445	21.8	37
70	Influence of the Content and Environment of Chromium in CrSiBEA Zeolites on the Oxidative Dehydrogenation of Propane. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13273-13281	3.8	36
69	The influence of surface composition of Ag <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> and Ag <sub>3</sub> PMo <sub>12</sub> O <sub>40</sub> salts on their catalytic activity in dehydration of ethanol. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 351, 1-10		34

68	Fe/CoO(001) and Fe/CoO(111) bilayers: Effect of crystal orientation on the exchange bias. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	31
67	Incorporation of Copper in SiBEA Zeolite as Isolated Lattice Mononuclear Cu(II) Species and its Role in Selective Catalytic Reduction of NO by Ethanol. <i>Catalysis Letters</i> , <b>2008</b> , 126, 36-42	2.8	30
66	Carbon-supported Pd100-XAuX alloy nanoparticles for the electrocatalytic oxidation of formic acid: Influence of metal particles composition on activity enhancement. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 393-405	21.8	29
65	The effect of support properties in the preparation of Pd size-controlled catalysts by Water-in-oil microemulsion method. <i>Catalysis Communications</i> , <b>2012</b> , 22, 58-67	3.2	25
64	perturbed angular correlation and Mössbauer effect investigations of SrRuO <sub>3</sub> and CaRuO <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 471, 5-10	5.7	24
63	Palladium Content Effect on the Electrocatalytic Activity of Palladium Polypyrrole Nanocomposite for Cathodic Reduction of Oxygen. <i>Electrocatalysis</i> , <b>2014</b> , 5, 23-40	2.7	21
62	Magnetic ordering in NdRhSn. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 301, 359-370	2.8	21
61	Investigation of the magnetic properties of Y <sub>2</sub> Ru <sub>2</sub> O <sub>7</sub> by Ru <sup>99</sup> Mössbauer spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	21
60	Structure, magnetic properties and <sup>119</sup> Sn Mössbauer spectroscopy of PrRhSn. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 3101-3109	3.3	21
59	The continuous conversion of ethanol and water mixtures into hydrogen over Fe <sub>x</sub> O <sub>y</sub> /MoO <sub>3</sub> catalytic system XPS and Mössbauer studies. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 423, 92-104		19
58	Bulk magnetic measurements and Ru <sup>99</sup> and Gd <sup>155</sup> Mössbauer spectroscopies of Gd <sub>2</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	19
57	Au/FeO <sub>x</sub> catalysts of different degree of iron oxide reduction. <i>Catalysis Today</i> , <b>2012</b> , 187, 20-29	5.3	18
56	Effect of interfacial iron oxidation on the exchange bias in CoO/Fe bilayers. <i>Applied Surface Science</i> , <b>2014</b> , 304, 86-90	6.7	17
55	Cobalt Based Catalysts Supported on Two Kinds of Beta Zeolite for Application in Fischer-Tropsch Synthesis. <i>Catalysts</i> , <b>2019</b> , 9, 497	4	16
54	A role of Au-content in performance of Pd-Au/SiO <sub>2</sub> and Pd-Au/Al <sub>2</sub> O <sub>3</sub> catalyst in the hydrogen and oxygen recombination reaction. The microcalorimetric and DFT studies. <i>Applied Catalysis A: General</i> , <b>2016</b> , 517, 196-210	5.1	16
53	Nature of the active sites in CO oxidation on FeSiBEA zeolites. <i>Applied Catalysis A: General</i> , <b>2016</b> , 519, 16-26	5.1	15
52	The effect of Nafion ionomer on electroactivity of palladium polypyrrole catalysts for oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 639-653	2.6	14
51	Unique cation surroundings in the structure of Ag <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> salt. <i>Solid State Sciences</i> , <b>2011</b> , 13, 1276-1284		14

50	Formation of Pd-group VIII bimetallic nanoparticles by the water-in-oil microemulsion method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 529, 246-260	5.1	13
49	Sn-BEA zeolites prepared by two-step postsynthesis method: Physicochemical properties and catalytic activity in processes based on MPV reduction. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 268, 178-188	5.3	12
48	Activity/selectivity control in Pd/HxMoO <sub>3</sub> catalyzed cinnamaldehyde hydrogenation. <i>Applied Catalysis A: General</i> , <b>2016</b> , 515, 60-71	5.1	12
47	Exchange bias in epitaxial CoO/Fe bilayer grown on MgO(001). <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 696-698	1.5	12
46	Physicochemical and catalytic properties of Pd/MoO <sub>3</sub> prepared by the sonophotodeposition method. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 204, 361-372	4.4	12
45	Activity and deactivation of Pd/Al <sub>2</sub> O <sub>3</sub> catalysts in hydrogen and oxygen recombination reaction; a role of alkali (Li, Cs) dopant. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 16127-16136	6.7	11
44	Layer-by-layer epitaxial growth of polar FeO(111) thin films on MgO(111). <i>Surface Science</i> , <b>2012</b> , 606, 711-714	1.8	11
43	Structural rearrangements in Fe-porous clay heterostructures composites derived from Laponite □ Influence of preparation methods and Fe source. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 231, 66-81	5.3	11
42	<sup>119</sup> Sn Mössbauer spectroscopy of the intermetallic compound HoRhSn. <i>Intermetallics</i> , <b>2010</b> , 18, 129-133	3.5	10
41	<sup>119</sup> Sn Mössbauer studies of the DyAgSn and DyAuSn compounds. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 390, 9-15	5.7	10
40	<sup>119</sup> Sn Mössbauer spectroscopy studies of RAgSn compounds (R=La, Ce, Pr). <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 319, 43-49	5.7	10
39	Mechanism of formation of framework Fe <sup>3+</sup> in bimetallic Ag-Fe mordenites - Effective catalytic centers for deNO <sub>x</sub> reaction. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 299, 109841	5.3	10
38	Assessment of the capability of Fe and Al modified BEA zeolites to promote advanced oxidation processes in aqueous phase. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 127379	14.7	10
37	Carbon supported Pd <sub>x</sub> Pt <sub>y</sub> nanoparticles for oxygen reduction. The effect of Pd:Pt ratio. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1220-1233	6.7	9
36	Bulk and local properties of DyRhSn. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 81-83	5.7	8
35	Silver nanowires as a result of irradiation or hydrogen reduction of Ag <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> salt. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 757-761	1.5	8
34	Mössbauer and magnetic characterization of TbRhSn. <i>Hyperfine Interactions</i> , <b>2008</b> , 184, 39-43	0.8	8
33	Magnetic and spectroscopic properties of NdT <sub>2</sub> Sn (T = Ag, Au) compounds. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 385, 64-73	5.7	8

32	New insight into the effect of surface oxidized groups of nanostructured carbon supported Pd catalysts on the furfural hydrogenation. <i>Surfaces and Interfaces</i> , <b>2019</b> , 17, 100379	4.1	7
31	Hyperfine interactions studied by <sup>119</sup> Sn Mössbauer spectroscopy in TbAuSn and TmAuSn compounds. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 400, 16-22	5.7	7
30	Direct extraction of McWhorter's constant from LFN spectra of MOSFETs with planar layers of Si nanocrystals embedded in gate SiO <sub>2</sub> <b>2004</b> , 5470, 560		7
29	Magnetic and <sup>119</sup> Sn Mössbauer studies of the HoAuSn compound. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 383, 265-268	5.7	7
28	A Precursor Approach for the Development of Lace-like Fe <sub>2</sub> O <sub>3</sub> Nanocrystallites Triggered by Pressure Dependent Nucleation and Growth of Akaganeite over Clay Based Composites for Toluene Combustion. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26236-26250	3.8	6
27	TbRhSn and DyRhSn [Detailed magnetic and <sup>119</sup> Sn Mössbauer spectroscopic studies. <i>Intermetallics</i> , <b>2014</b> , 46, 56-64	3.5	6
26	Electronic and Magnetic Properties of Ternary Stannides RERhSn (RE = Tb, Dy and Ho). <i>Solid State Phenomena</i> , <b>2011</b> , 170, 74-77	0.4	6
25	Liquid phase hydrogenation of furfural under mild conditions over Pd/C catalysts of various acidity. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2019</b> , 126, 417-437	1.6	6
24	The Catalytic Performance of Ni-Co/Beta Zeolite Catalysts in Fischer-Tropsch Synthesis. <i>Catalysts</i> , <b>2020</b> , 10, 112	4	5
23	Magnetism of ErAgSn studied by <sup>119</sup> Sn Mössbauer spectroscopy <b>2000</b> , 126, 299-303		5
22	Structural, Catalytic, and Thermal Properties of Stainless Steel with Nanoscale Metal Surface Layer. <i>Springer Proceedings in Physics</i> , <b>2017</b> , 355-364	0.2	5
21	Synthesis of carbon-supported bimetallic palladium-iridium catalysts by microemulsion: characterization and electrocatalytic properties. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 392-414	4.3	5
20	Magnetic properties of epitaxial CoO/Fe(001) bilayers: The onset of exchange bias as a function of sublayer thickness and temperature. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
19	Tuning Catalytic Properties of Supported Bimetallic Pd/Ir Systems in the Hydrogenation of Cinnamaldehyde by Using the "Water-in-Oil" Microemulsion Method. <i>Journal of Chemistry</i> , <b>2019</b> , 2019, 1-11	2.3	4
18	Alteration of the structure and surface composition of crystalline-amorphous porous clay heterostructures upon iron doping from metal-organic source. <i>Surface and Interface Analysis</i> , <b>2016</b> , 48, 527-531	1.5	4
17	Formation of Nanodimensional Layer of Catalytically Active Metals on Stainless Steel Surface by Ionic Implantation. <i>Theoretical and Experimental Chemistry</i> , <b>2018</b> , 54, 128-137	1.3	4
16	Probing the SmRhSn magnetic state by AC/DC magnetic measurements and <sup>119</sup> Sn Mössbauer spectroscopy. <i>Intermetallics</i> , <b>2012</b> , 22, 154-159	3.5	4
15	Hyperfine interactions studied by <sup>119</sup> Sn Mössbauer spectroscopy in SmRhSn. <i>Hyperfine Interactions</i> , <b>2008</b> , 184, 33-38	0.8	4

14	Crystal Structure, Chemical Bonding, and Magnetic Hyperfine Interactions in GdRu <sub>2</sub> SiC. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1381-1389	9.6	3
13	Magnetic properties and <sup>155</sup> Gd Mössbauer spectroscopy of LT-GdNiIn <sub>2</sub> . <i>Solid State Sciences</i> , <b>2006</b> , 8, 548-555	3.4	3
12	Corrosion failure analysis of a cooling system of an injection mold. <i>Engineering Failure Analysis</i> , <b>2022</b> , 135, 106118	3.2	3
11	Effect of the type of siliceous template and carbon precursor on physicochemical and catalytic properties of mesoporous nanostructured carbon-palladium systems. <i>Journal of Porous Materials</i> , <b>2020</b> , 27, 1287-1308	2.4	2
10	Hydrogen production over Fe enriched porous clay-based nanocomposites and mesoporous silica in bio-ethanol reforming The role of the clay component. <i>Applied Clay Science</i> , <b>2020</b> , 198, 105801	5.2	2
9	Magnetic properties of GdPt <sub>4</sub> In. <i>Solid State Sciences</i> , <b>2009</b> , 11, 1680-1685	3.4	1
8	Structural, electrical, and magnetic study of La-, Eu-, and Er- doped bismuth ferrite nanomaterials obtained by solution combustion synthesis. <i>Scientific Reports</i> , <b>2021</b> , 11, 22746	4.9	1
7	Efficient transformation of cyclohexanone to ε-caprolactone in the oxygen-aldehyde system over single-site titanium BEA zeolite. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 322, 111159	5.3	1
6	The catalytic activity of microporous and mesoporous NiCoBeta zeolite catalysts in Fischer-Tropsch synthesis. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 397-418	2.8	1
5	Copper Aluminum Spinels Doped with Cerium as Catalysts for NO Removal. <i>Catalysts</i> , <b>2020</b> , 10, 1388	4	0
4	The role of hydrogen bronzes in the hydrogenation of polyfunctional reagents: cinnamaldehyde, furfural and 5-hydroxymethylfurfural over Pd/HxWO <sub>3</sub> and Pd/HxMoO <sub>3</sub> catalysts. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 2347-2347	6.7	0
3	Mössbauer and magnetic characterization of TbRhSn <b>2008</b> , 453-457		
2	Chemical Bonding, Magnetic and Spectroscopic Properties of GdRu <sub>2</sub> SiC. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2006</b> , 632, 2114-2114	1.3	
1	Hyperfine interactions studied by <sup>119</sup> Sn Mössbauer spectroscopy in SmRhSn <b>2008</b> , 447-452		