

Jacek Gurgul

List of Publications by Year in descending order

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89
papers

2,738
citations

257101

24
h-index

189595

50
g-index

94
all docs

94
docs citations

94
times ranked

3907
citing authors

#	ARTICLE	IF	CITATIONS
1	XPS and NMR studies of phosphoric acid activated carbons. <i>Carbon</i> , 2008, 46, 2113-2123.	5.4	743
2	Photocatalytic Activity of Titanium Dioxide Modified by Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1945-1953.	4.0	159
3	The antimonide oxides REZnSbO and REMnSbO (RE=Ce, Pr) – An XPS study. <i>Solid State Sciences</i> , 2013, 17, 122-127.	1.5	96
4	Influence of iron state and acidity of zeolites on the catalytic activity of FeHBEA, FeHZSM-5 and FeHMOR in SCR of NO with NH ₃ and N ₂ O decomposition. <i>Microporous and Mesoporous Materials</i> , 2015, 203, 73-85.	2.2	93
5	Catalytic combustion of toluene over mixed Cu-Mn oxides. <i>Catalysis Today</i> , 2007, 119, 321-326.	2.2	92
6	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> , 2007, 75, 239-248.	10.8	86
7	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> , 2009, 85, 131-138.	10.8	75
8	Identification of iron species in FeSiBEA by DR UV-vis, XPS and Mössbauer spectroscopy: Influence of Fe content. <i>Microporous and Mesoporous Materials</i> , 2013, 168, 1-6.	2.2	75
9	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> , 2009, 91, 217-224.	10.8	72
10	Selective catalytic reduction of NO by ethanol: Speciation of iron and “structure” properties relationship in FeSiBEA zeolite. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 113-122.	10.8	60
11	The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N ₂ O decomposition. <i>Catalysis Today</i> , 2014, 235, 210-225.	2.2	58
12	The role of alkali modifiers (Li, Na, K, Cs) in activity of 2%Pd/Al ₂ O ₃ catalysts for 2-ethyl-9,10-anthraquinone hydrogenation. <i>Applied Catalysis A: General</i> , 2011, 402, 121-131.	2.2	51
13	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> , 2014, 487, 1-15.	2.2	48
14	BEA zeolite modified with iron as effective catalyst for N ₂ O decomposition and selective reduction of NO with ammonia. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 434-445.	10.8	43
15	Influence of the Content and Environment of Chromium in CrSiBEA Zeolites on the Oxidative Dehydrogenation of Propane. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13273-13281.	1.5	42
16	Transesterification reaction of triglycerides in the presence of Ag-doped H ₃ PW ₁₂ O ₄₀ . <i>Journal of Molecular Catalysis A</i> , 2010, 316, 30-44.	4.8	41
17	The influence of surface composition of Ag ₃ PW ₁₂ O ₄₀ and Ag ₃ PMo ₁₂ O ₄₀ salts on their catalytic activity in dehydration of ethanol. <i>Journal of Molecular Catalysis A</i> , 2011, 351, 1-10.	4.8	40
18	Carbon-supported Pd ₁₀₀ -XAu _x alloy nanoparticles for the electrocatalytic oxidation of formic acid: Influence of metal particles composition on activity enhancement. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 393-405.	10.8	36

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19	Fe/CoO(001) and Fe/CoO(111) bilayers: Effect of crystal orientation on the exchange bias. <i>Physical Review B</i> , 2013, 88, .	1.1	34
20	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> , 2008, 126, 36-42.	1.4	31
21	The effect of support properties in the preparation of Pd size-controlled catalysts by "water-in-oil" microemulsion method. <i>Catalysis Communications</i> , 2012, 22, 58-67.	1.6	28
22	perturbed angular correlation and Mössbauer effect investigations of SrRuO ₃ and CaRuO ₃ . <i>Journal of Alloys and Compounds</i> , 2009, 471, 5-10.	2.8	26
23	The continuous conversion of ethanol and water mixtures into hydrogen over Fe _x O _y /MoO ₃ catalytic system – XPS and Mössbauer studies. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 92-104.	4.8	25
24	Cobalt Based Catalysts Supported on Two Kinds of Beta Zeolite for Application in Fischer-Tropsch Synthesis. <i>Catalysts</i> , 2019, 9, 497.	1.6	25
25	Investigation of the magnetic properties of Y ₂ Ru ₂ O ₇ by Ru ⁹⁹ Mössbauer spectroscopy. <i>Physical Review B</i> , 2006, 74, .	1.1	24
26	Palladium Content Effect on the Electrocatalytic Activity of Palladium – Polypyrrole Nanocomposite for Cathodic Reduction of Oxygen. <i>Electrocatalysis</i> , 2014, 5, 23-40.	1.5	24
27	Bulk magnetic measurements and Ru ⁹⁹ and Gd ¹⁵⁵ Mössbauer spectroscopies of Gd ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2007, 75, .	1.1	23
28	A role of Au-content in performance of Pd-Au/SiO ₂ and Pd-Au/Al ₂ O ₃ catalyst in the hydrogen and oxygen recombination reaction. The microcalorimetric and DFT studies. <i>Applied Catalysis A: General</i> , 2016, 517, 196-210.	2.2	23
29	Structure, magnetic properties and ¹¹⁹ Sn Mössbauer spectroscopy of PrRhSn. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3101-3109.	1.4	21
30	Magnetic ordering in NdRhSn. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 301, 359-370.	1.0	21
31	Au/FeO _x catalysts of different degree of iron oxide reduction. <i>Catalysis Today</i> , 2012, 187, 20-29.	2.2	19
32	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> , 2018, 268, 178-188.	2.2	19
33	Assessment of the capability of Fe and Al modified BEA zeolites to promote advanced oxidation processes in aqueous phase. <i>Chemical Engineering Journal</i> , 2021, 409, 127379.	6.6	19
34	Structural, electrical, and magnetic study of La-, Eu-, and Er- doped bismuth ferrite nanomaterials obtained by solution combustion synthesis. <i>Scientific Reports</i> , 2021, 11, 22746.	1.6	19
35	Effect of interfacial iron oxidation on the exchange bias in CoO/Fe bilayers. <i>Applied Surface Science</i> , 2014, 304, 86-90.	3.1	18
36	Activity and deactivation of Pd/Al ₂ O ₃ catalysts in hydrogen and oxygen recombination reaction; a role of alkali (Li, Cs) dopant. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16127-16136.	3.8	18

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37	Nature of the active sites in CO oxidation on FeSiBEA zeolites. Applied Catalysis A: General, 2016, 519, 16-26.	2.2	18
38	Unique cation surroundings in the structure of Ag ₃ PW ₁₂ O ₄₀ salt. Solid State Sciences, 2011, 13, 1276-1284.	1.5	17
39	Formation of Pd-group VIII bimetallic nanoparticles by the "water-in-oil" microemulsion method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 246-260.	2.3	17
40	The effect of Nafion ionomer on electroactivity of palladium-polypyrrole catalysts for oxygen reduction reaction. Journal of Solid State Electrochemistry, 2014, 18, 639-653.	1.2	16
41	Activity/selectivity control in Pd/H x MoO ₃ catalyzed cinnamaldehyde hydrogenation. Applied Catalysis A: General, 2016, 515, 60-71.	2.2	16
42	Structural rearrangements in Fe-porous clay heterostructures composites derived from Laponite " " Influence of preparation methods and Fe source. Microporous and Mesoporous Materials, 2016, 231, 66-81.	2.2	15
43	Layer-by-layer epitaxial growth of polar FeO(111) thin films on MgO(111). Surface Science, 2012, 606, 711-714.	0.8	14
44	Physicochemical and catalytic properties of Pd/MoO ₃ prepared by the sonophotodeposition method. Materials Chemistry and Physics, 2018, 204, 361-372.	2.0	13
45	¹¹⁹ Sn Mössbauer studies of the DyAgSn and DyAuSn compounds. Journal of Alloys and Compounds, 2005, 390, 9-15.	2.8	12
46	Exchange bias in epitaxial CoO/Fe bilayer grown on MgO(001). Surface and Interface Analysis, 2010, 42, 696-698.	0.8	12
47	Mechanism of formation of framework Fe ³⁺ in bimetallic Ag-Fe mordenites - Effective catalytic centers for deNO _x reaction. Microporous and Mesoporous Materials, 2020, 299, 109841.	2.2	12
48	Synthesis of carbon-supported bimetallic palladium-iridium catalysts by microemulsion: characterization and electrocatalytic properties. Journal of Materials Science, 2021, 56, 392-414.	1.7	12
49	¹¹⁹ Sn Mössbauer spectroscopy studies of RAgSn compounds (R=La, Ce, Pr). Journal of Alloys and Compounds, 2001, 319, 43-49.	2.8	11
50	Magnetic and spectroscopic properties of NdTSn (T = Ag, Au) compounds. Journal of Alloys and Compounds, 2004, 385, 64-73.	2.8	11
51	Carbon supported Pd _x Pt _y nanoparticles for oxygen reduction. The effect of Pd:Pt ratio. Electrochimica Acta, 2016, 222, 1220-1233.	2.6	11
52	New insight into the effect of surface oxidized groups of nanostructured carbon supported Pd catalysts on the furfural hydrogenation. Surfaces and Interfaces, 2019, 17, 100379.	1.5	11
53	The Catalytic Performance of Ni-Co/Beta Zeolite Catalysts in Fischer-Tropsch Synthesis. Catalysts, 2020, 10, 112.	1.6	11
54	Structural, Catalytic, and Thermal Properties of Stainless Steel with Nanoscale Metal Surface Layer. Springer Proceedings in Physics, 2017, , 355-364.	0.1	11

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55	^{119}Sn Mössbauer spectroscopy of the intermetallic compound HoRhSn. <i>Intermetallics</i> , 2010, 18, 129-133.	1.8	10
56	Liquid phase hydrogenation of furfural under mild conditions over Pd/C catalysts of various acidity. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 126, 417-437.	0.8	10
57	Direct extraction of McWhorter's constant from LFN spectra of MOSFETs with planar layers of Si nanocrystals embedded in gate SiO ₂ . , 2004, 5470, 560.		9
58	A Precursor Approach for the Development of Lace-like Fe ₂ O ₃ Nanocrystallites Triggered by Pressure Dependent Nucleation and Growth of Akaganeite over Clay Based Composites for Toluene Combustion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26236-26250.	1.5	9
59	Magnetic and Mössbauer studies of the HoAuSn compound. <i>Journal of Alloys and Compounds</i> , 2004, 383, 265-268.	2.8	8
60	Hyperfine interactions studied by ^{119}Sn Mössbauer spectroscopy in TbAuSn and TmAuSn compounds. <i>Journal of Alloys and Compounds</i> , 2005, 400, 16-22.	2.8	8
61	Mössbauer and magnetic characterization of TbRhSn. <i>Hyperfine Interactions</i> , 2008, 184, 39-43.	0.2	8
62	Bulk and local properties of DyRhSn. <i>Journal of Alloys and Compounds</i> , 2009, 480, 81-83.	2.8	8
63	Silver nanowires as a result of irradiation or hydrogen reduction of Ag ₃ PW12 O ₄₀ salt. <i>Surface and Interface Analysis</i> , 2010, 42, 757-761.	0.8	8
64	Electronic and Magnetic Properties of Ternary Stannides RERhSn (RE = Tb, Dy and Ho). <i>Solid State Phenomena</i> , 0, 170, 74-77.	0.3	6
65	TbRhSn and DyRhSn – Detailed magnetic and ^{119}Sn Mössbauer spectroscopic studies. <i>Intermetallics</i> , 2014, 46, 56-64.	1.8	6
66	Formation of Nanodimensional Layer of Catalytically Active Metals on Stainless Steel Surface by Ionic Implantation. <i>Theoretical and Experimental Chemistry</i> , 2018, 54, 128-137.	0.2	6
67	The role of hydrogen bronzes in the hydrogenation of polyfunctional reagents: cinnamaldehyde, furfural and 5-hydroxymethylfurfural over Pd/HxWO ₃ and Pd/HxMoO ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 2347-2365.	3.8	6
68	Corrosion failure analysis of a cooling system of an injection mold. <i>Engineering Failure Analysis</i> , 2022, 135, 106118.	1.8	6
69	Magnetism of ErAgSn studied by ^{119}Sn Mössbauer spectroscopy. , 2000, 126, 299-303.		5
70	Probing the SmRhSn magnetic state by AC/DC magnetic measurements and ^{119}Sn Mössbauer spectroscopy. <i>Intermetallics</i> , 2012, 22, 154-159.	1.8	5
71	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> , 2016, 48, 527-531.	0.8	5
72	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> , 2017, 96, .	1.1	5

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73	Tuning Catalytic Properties of Supported Bimetallic Pd/Ir Systems in the Hydrogenation of Cinnamaldehyde by Using the "Water-in-Oil" Microemulsion Method. Journal of Chemistry, 2019, 2019, 1-11.	0.9	5
74	Hydrogen production over Fe enriched porous clay-based nanocomposites and mesoporous silica in bio-ethanol reforming " The role of the clay component. Applied Clay Science, 2020, 198, 105801.	2.6	5
75	Effect of the type of siliceous template and carbon precursor on physicochemical and catalytic properties of mesoporous nanostructured carbon-palladium systems. Journal of Porous Materials, 2020, 27, 1287-1308.	1.3	5
76	Magnetic properties and ¹⁵⁵ Gd Mössbauer spectroscopy of LT-GdNiIn ₂ . Solid State Sciences, 2006, 8, 548-555.	1.5	4
77	Hyperfine interactions studied by ¹¹⁹ Sn Mössbauer spectroscopy in SmRhSn. Hyperfine Interactions, 2008, 184, 33-38.	0.2	4
78	Crystal Structure, Chemical Bonding, and Magnetic Hyperfine Interactions in GdRu ₂ SiC. Chemistry of Materials, 2008, 20, 1381-1389.	3.2	4
79	Copper Aluminum Spinel Doped with Cerium as Catalysts for NO Removal. Catalysts, 2020, 10, 1388.	1.6	4
80	The catalytic activity of microporous and mesoporous NiCoBeta zeolite catalysts in Fischer-Tropsch synthesis. Research on Chemical Intermediates, 2021, 47, 397-418.	1.3	4
81	Efficient transformation of cyclohexanone to ϵ -caprolactone in the oxygen-aldehyde system over single-site titanium BEA zeolite. Microporous and Mesoporous Materials, 2021, 322, 111159.	2.2	4
82	Impact of Cerium Oxide on the State and Hydrogenation Activity of Ruthenium Species Incorporated on Mesocellular Foam Silica. Materials, 2022, 15, 4877.	1.3	2
83	Magnetic properties of GdPt ₄ In. Solid State Sciences, 2009, 11, 1680-1685.	1.5	1
84	Aluminum Doped Titania as a Support of Copper Catalysts for SCR of Nitrogen Oxides. Materials, 2021, 14, 6021.	1.3	1
85	Magnetic and Spectroscopic Properties of NdT ₃ Sn (T: Ag, Au) Compounds.. ChemInform, 2005, 36, no.	0.1	0
86	¹¹⁹ Sn Moessbauer Studies of the DyAgSn and DyAuSn Compounds. ChemInform, 2005, 36, no.	0.1	0
87	LF Noise and Tunneling Current in Nanometric SiO ₂ Layers. AIP Conference Proceedings, 2005, , .	0.3	0
88	Mössbauer and magnetic characterization of TbRhSn. , 2008, , 453-457.		0
89	Hyperfine interactions studied by ¹¹⁹ Sn Mössbauer spectroscopy in SmRhSn. , 2008, , 447-452.		0