

Jacek Gurgul

List of Publications by Year in Descending Order

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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.

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	Corrosion failure analysis of a cooling system of an injection mold. <i>Engineering Failure Analysis</i> , 2022 , 135, 106118	3.2	3
84	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	4.9	1
83	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> , 2021 , 47, 2347-2347	6.7	0
82	Efficient transformation of cyclohexanone to ϵ -caprolactone in the oxygen-aldehyde system over single-site titanium BEA zeolite. <i>Microporous and Mesoporous Materials</i> , 2021 , 322, 111159	5.3	1
81	Synthesis of carbon-supported bimetallic palladium-iridium catalysts by microemulsion: characterization and electrocatalytic properties. <i>Journal of Materials Science</i> , 2021 , 56, 392-414	4.3	5
80	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	14.7	10
79	The catalytic activity of microporous and mesoporous NiCoBeta zeolite catalysts in Fischer-Tropsch synthesis. <i>Research on Chemical Intermediates</i> , 2021 , 47, 397-418	2.8	1
78	Copper Aluminum Spinel Doped with Cerium as Catalysts for NO Removal. <i>Catalysts</i> , 2020 , 10, 1388	4	0
77	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> , 2020 , 27, 1287-1308	2.4	2
76	The Catalytic Performance of Ni-Co/Beta Zeolite Catalysts in Fischer-Tropsch Synthesis. <i>Catalysts</i> , 2020 , 10, 112	4	5
75	Mechanism of formation of framework Fe ³⁺ in bimetallic Ag-Fe mordenites - Effective catalytic centers for deNO _x reaction. <i>Microporous and Mesoporous Materials</i> , 2020 , 299, 109841	5.3	10
74	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> , 2020 , 198, 105801	5.2	2
73	New insight into the effect of surface oxidized groups of nanostructured carbon supported Pd catalysts on the furfural hydrogenation. <i>Surfaces and Interfaces</i> , 2019 , 17, 100379	4.1	7
72	Cobalt Based Catalysts Supported on Two Kinds of Beta Zeolite for Application in Fischer-Tropsch Synthesis. <i>Catalysts</i> , 2019 , 9, 497	4	16
71	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> , 2019 , 2019, 1-11	2.3	4
70	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	3.8	6
69	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	1.6	6

68	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	5.3	12
67	Carbon-supported Pd ₁₀₀ -XAuX 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	21.8	29
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	1.3	4
65	Physicochemical and catalytic properties of Pd/MoO ₃ prepared by the sonophotodeposition method. <i>Materials Chemistry and Physics</i> , 2018 , 204, 361-372	4.4	12
64	Formation of Pd-group VIII bimetallic nanoparticles by the "water-in-oil" microemulsion method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 529, 246-260	5.1	13
63	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,	3.3	4
62	Structural, Catalytic, and Thermal Properties of Stainless Steel with Nanoscale Metal Surface Layer. <i>Springer Proceedings in Physics</i> , 2017 , 355-364	0.2	5
61	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		19
60	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	1.5	4
59	Nature of the active sites in CO oxidation on FeSiBEA zeolites. <i>Applied Catalysis A: General</i> , 2016 , 519, 16-26	5.1	15
58	Activity/selectivity control in Pd/H _x MoO ₃ catalyzed cinnamaldehyde hydrogenation. <i>Applied Catalysis A: General</i> , 2016 , 515, 60-71	5.1	12
57	Carbon supported Pd _x Pt _y nanoparticles for oxygen reduction. The effect of Pd:Pt ratio. <i>Electrochimica Acta</i> , 2016 , 222, 1220-1233	6.7	9
56	Structural rearrangements in Fe-porous clay heterostructures composites derived from Laponite: Influence of preparation methods and Fe source. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 66-81	5.3	11
55	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	5.1	16
54	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	6.7	11
53	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	5.3	77
52	The effect of Nafion ionomer on electroactivity of palladium-polypyrrole catalysts for oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 639-653	2.6	14
51	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	5.3	43

50	TbRhSn and DyRhSn Detailed magnetic and ^{119}Sn Mössbauer spectroscopic studies. <i>Intermetallics</i> , 2014 , 46, 56-64	3.5	6
49	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	5.1	44
48	Effect of interfacial iron oxidation on the exchange bias in CoO/Fe bilayers. <i>Applied Surface Science</i> , 2014 , 304, 86-90	6.7	17
47	Palladium Content Effect on the Electrocatalytic Activity of Palladium Polypyrrole Nanocomposite for Cathodic Reduction of Oxygen. <i>Electrocatalysis</i> , 2014 , 5, 23-40	2.7	21
46	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	5.3	59
45	The antimonide oxides REZnSbO and REMnSbO (RE = Ce, Pr) An XPS study. <i>Solid State Sciences</i> , 2013 , 17, 122-127	3.4	72
44	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	21.8	37
43	Fe/CoO(001) and Fe/CoO(111) bilayers: Effect of crystal orientation on the exchange bias. <i>Physical Review B</i> , 2013 , 88,	3.3	31
42	Layer-by-layer epitaxial growth of polar FeO(111) thin films on MgO(111). <i>Surface Science</i> , 2012 , 606, 711-714	1.8	11
41	Probing the SmRhSn magnetic state by AC/DC magnetic measurements and ^{119}Sn Mössbauer spectroscopy. <i>Intermetallics</i> , 2012 , 22, 154-159	3.5	4
40	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	3.2	25
39	Au/FeO _x catalysts of different degree of iron oxide reduction. <i>Catalysis Today</i> , 2012 , 187, 20-29	5.3	18
38	Unique cation surroundings in the structure of Ag ₃ PW ₁₂ O ₄₀ salt. <i>Solid State Sciences</i> , 2011 , 13, 1276-1284	3.4	14
37	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		34
36	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	5.1	44
35	Electronic and Magnetic Properties of Ternary Stannides RERhSn (RE = Tb, Dy and Ho). <i>Solid State Phenomena</i> , 2011 , 170, 74-77	0.4	6
34	^{119}Sn Mössbauer spectroscopy of the intermetallic compound HoRhSn. <i>Intermetallics</i> , 2010 , 18, 129-133	3.5	10
33	Photocatalytic activity of titanium dioxide modified by silver nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1945-53	9.5	141

32	Transesterification reaction of triglycerides in the presence of Ag-doped H3PW12O40. <i>Journal of Molecular Catalysis A</i> , 2010 , 316, 30-44		40
31	Silver nanowires as a result of irradiation or hydrogen reduction of Ag3PW12O40 salt. <i>Surface and Interface Analysis</i> , 2010 , 42, 757-761	1.5	8
30	Exchange bias in epitaxial CoO/Fe bilayer grown on MgO(001). <i>Surface and Interface Analysis</i> , 2010 , 42, 696-698	1.5	12
29	Magnetic properties of GdPt4In. <i>Solid State Sciences</i> , 2009 , 11, 1680-1685	3.4	1
28	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	21.8	60
27	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	21.8	55
26	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	21.8	61
25	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	3.8	36
24	perturbed angular correlation and Mössbauer effect investigations of SrRuO3 and CaRuO3. <i>Journal of Alloys and Compounds</i> , 2009 , 471, 5-10	5.7	24
23	Bulk and local properties of DyRhSn. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 81-83	5.7	8
22	Mössbauer and magnetic characterization of TbRhSn 2008 , 453-457		
21	Crystal Structure, Chemical Bonding, and Magnetic Hyperfine Interactions in GdRu2SiC. <i>Chemistry of Materials</i> , 2008 , 20, 1381-1389	9.6	3
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	2.8	30
19	Hyperfine interactions studied by 119Sn Mössbauer spectroscopy in SmRhSn. <i>Hyperfine Interactions</i> , 2008 , 184, 33-38	0.8	4
18	Mössbauer and magnetic characterization of TbRhSn. <i>Hyperfine Interactions</i> , 2008 , 184, 39-43	0.8	8
17	XPS and NMR studies of phosphoric acid activated carbons. <i>Carbon</i> , 2008 , 46, 2113-2123	10.4	591
16	Hyperfine interactions studied by 119Sn Mössbauer spectroscopy in SmRhSn 2008 , 447-452		
15	Catalytic combustion of toluene over mixed Cu-Mn oxides. <i>Catalysis Today</i> , 2007 , 119, 321-326	5.3	78

14	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	21.8	77
13	Bulk magnetic measurements and Ru99 and Gd155 Mössbauer spectroscopies of Gd ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2007 , 75,	3.3	19
12	Magnetic properties and 155Gd Mössbauer spectroscopy of LT-GdNiIn ₂ . <i>Solid State Sciences</i> , 2006 , 8, 548-555	3.4	3
11	Magnetic ordering in NdRhSn. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 301, 359-370	2.8	21
10	Investigation of the magnetic properties of Y ₂ Ru ₂ O ₇ by Ru99 Mössbauer spectroscopy. <i>Physical Review B</i> , 2006 , 74,	3.3	21
9	Chemical Bonding, Magnetic and Spectroscopic Properties of GdRu ₂ SiC. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2114-2114	1.3	
8	119Sn Mössbauer studies of the DyAgSn and DyAuSn compounds. <i>Journal of Alloys and Compounds</i> , 2005 , 390, 9-15	5.7	10
7	Hyperfine interactions studied by 119Sn Mössbauer spectroscopy in TbAuSn and TmAuSn compounds. <i>Journal of Alloys and Compounds</i> , 2005 , 400, 16-22	5.7	7
6	Structure, magnetic properties and 119Sn Mössbauer spectroscopy of PrRhSn. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3101-3109	3.3	21
5	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		7
4	Magnetic and 119Sn Mössbauer studies of the HoAuSn compound. <i>Journal of Alloys and Compounds</i> , 2004 , 383, 265-268	5.7	7
3	Magnetic and spectroscopic properties of NdT ₂ Sn (T = Ag, Au) compounds. <i>Journal of Alloys and Compounds</i> , 2004 , 385, 64-73	5.7	8
2	119Sn Mössbauer spectroscopy studies of RAgSn compounds (R=La, Ce, Pr). <i>Journal of Alloys and Compounds</i> , 2001 , 319, 43-49	5.7	10
1	Magnetism of ErAgSn studied by 119Sn Mössbauer spectroscopy 2000 , 126, 299-303		5