## Lucjan Chmielarz

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#	Paper	IF	Citations
102	Influence of thermal treatment conditions on the activity of hydrotalcite-derived MgAl oxides in the aldol condensation of acetone. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 78, 11-22	5.3	131
101	Advances in selective catalytic oxidation of ammonia to dinitrogen: a review. RSC Advances, 2015, 5, 434	198-43	<b>430</b> 5
100	Catalytic activity of Co-Mg-Al, Cu-Mg-Al and Cu-Co-Mg-Al mixed oxides derived from hydrotalcites in SCR of NO with ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2002</b> , 35, 195-210	21.8	98
99	Acidity and basicity of hydrotalcite derived mixed MgAl oxides studied by test reaction of MBOH conversion and temperature programmed desorption of NH3 and CO2. <i>Materials Research Bulletin</i> , <b>2004</b> , 39, 263-281	5.1	96
98	Influence of Cu, Co and Ni cations incorporated in brucite-type layers on thermal behaviour of hydrotalcites and reducibility of the derived mixed oxide systems. <i>Thermochimica Acta</i> , <b>2002</b> , 395, 225-2	236	95
97	Chromium oxide supported on MCM-41 as a highly active and selective catalyst for dehydrogenation of propane with CO2. <i>Applied Catalysis A: General</i> , <b>2008</b> , 349, 62-69	5.1	91
96	Selective oxidation of ammonia to nitrogen on transition metal containing mixed metal oxides. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 58, 235-244	21.8	89
95	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> , <b>2015</b> , 203, 73-85	5.3	77
94	Modification of MCM-48-, SBA-15-, MCF-, and MSU-type mesoporous silicas with transition metal oxides using the molecular designed dispersion method. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 115	5 <sup>3</sup> 2 <sup>4</sup> 8	76
93	SCR of NO by NH3 on alumina or titania-pillared montmorillonite various modified with Cu or Co: Part I. General characterization and catalysts screening. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 45, 103-116	21.8	71
92	Zeolite Y modified with palladium as effective catalyst for selective catalytic oxidation of ammonia to nitrogen. <i>Journal of Catalysis</i> , <b>2014</b> , 316, 36-46	7.3	69
91	Selective catalytic oxidation of ammonia to nitrogen over Mg-Al, Cu-Mg-Al and Fe-Mg-Al mixed metal oxides doped with noble metals. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 130-131, 152-162	21.8	68
90	Montmorillonite-based porous clay heterostructures (PCHs) intercalated with silicalitania pillars ynthesis and characterization. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1094-1104	3.3	68
89	IR studies of Fe modified ZSM-5 zeolites of diverse mesopore topologies in the terms of their catalytic performance in NH3-SCR and NH3-SCO processes. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 589-598	21.8	67
88	Selective Catalytic Oxidation (SCO) of Ammonia to Nitrogen over Hydrotalcite Originated Mgtuffe Mixed Metal Oxides. <i>Catalysis Letters</i> , <b>2011</b> , 141, 1345-1354	2.8	60
87	Acid-base treated vermiculite as high performance adsorbent: Insights into the mechanism of cationic dyes adsorption, regeneration, recyclability and stability studies. <i>Chemosphere</i> , <b>2017</b> , 173, 107-	1 <sup>8</sup> : <del>\$</del>	57
86	Comparison study of titania pillared interlayered clays and porous clay heterostructures modified with copper and iron as catalysts of the DeNOx process. <i>Applied Clay Science</i> , <b>2011</b> , 53, 164-173	5.2	57

85	Montmorillonite, vermiculite and saponite based porous clay heterostructures modified with transition metals as catalysts for the DeNOx process. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 88, 331-3	34d <sup>.8</sup>	55
84	Selective reduction of NO with NH3 over pillared clays modified with transition metals. <i>Catalysis Today</i> , <b>2004</b> , 90, 43-49	5.3	55
83	Simultaneous removal of dyes and metal cations using an acid, acid-base and base modified vermiculite as a sustainable and recyclable adsorbent. <i>Science of the Total Environment</i> , <b>2017</b> , 576, 398-	408 <sup>.2</sup>	51
82	SBA-15 mesoporous silica modified with metal oxides by MDD method in the role of DeNOx catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 127, 133-141	5.3	50
81	Influence of redox properties on the activity of iron oxide catalysts in dehydrogenation of propane with CO2. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2004</b> , 82, 121-130		49
80	Porous clay heterostructures (PCHs) intercalated with silica-titania pillars and modified with transition metals as catalysts for the DeNOx process. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 449-4	4 <del>3</del> 9.8	48
79	Selective catalytic reduction of NO with ammonia over porous clay heterostructures modified with copper and iron species. <i>Catalysis Today</i> , <b>2007</b> , 119, 181-186	5.3	46
78	VOx supported SBA-15 catalysts for the oxidative dehydrogenation of ethylbenzene to styrene in the presence of N2O. <i>Catalysis Today</i> , <b>2006</b> , 114, 307-313	5.3	46
77	Characterisation and reactivity of vanadialitania supported SBA-15 in the SCR of NO with ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 61, 69-78	21.8	46
76	Selective catalytic oxidation of ammonia into nitrogen over PCH modified with copper and iron species. <i>Catalysis Today</i> , <b>2006</b> , 114, 319-325	5.3	44
75	The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N2O decomposition. <i>Catalysis Today</i> , <b>2014</b> , 235, 210-225	5.3	43
74	Acid-activated vermiculites as catalysts of the DeNOx process. <i>Catalysis Today</i> , <b>2012</b> , 191, 25-31	5.3	43
73	Zeolites Y modified with palladium as effective catalysts for low-temperature methanol incineration. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 166-167, 353-365	21.8	41
72	Acid-activated vermiculites and phlogophites as catalysts for the DeNOx process. <i>Applied Clay Science</i> , <b>2010</b> , 49, 156-162	5.2	40
71	The influence of acid treatments over vermiculite based material as adsorbent for cationic textile dyestuffs. <i>Chemosphere</i> , <b>2016</b> , 153, 115-29	8.4	38
70	BEA zeolite modified with iron as effective catalyst for N2O decomposition and selective reduction of NO with ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 138-139, 434-445	21.8	37
69	An influence of thermal treatment conditions of hydrotalcite-like materials on their catalytic activity in the process of N2O decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 161-170	4.1	37
68	MCM-41 modified with transition metals by template ion-exchange method as catalysts for selective catalytic oxidation of ammonia to dinitrogen. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 240, 9-21	5.3	36

67	Mesoporous silica materials modified with alumina polycations as catalysts for the synthesis of dimethyl ether from methanol. <i>Materials Research Bulletin</i> , <b>2016</b> , 74, 425-435	5.1	31
66	Thermal transformations of CuMg (Zn)Al(Fe) hydrotalcite-like materials into metal oxide systems and their catalytic activity in selective oxidation of ammonia to dinitrogen. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 114, 731-747	4.1	31
65	Dehydrogenation of ethylbenzene with nitrous oxide in the presence of mesoporous silica materials modified with transition metal oxides. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 330-6	2.8	30
64	Ag-loaded zeolites Y and USY as catalysts for selective ammonia oxidation. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1651-1660	5.5	29
63	Influence of Cu on the catalytic activity of FeBEA zeolites in SCR of NO with NH3. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 168-169, 377-384	21.8	28
62	Aldol condensation of citral and acetone over mesoporous catalysts obtained by thermal and chemical activation of magnesium luminum hydrotalcite-like precursors. <i>Applied Catalysis A: General</i> , <b>2006</b> , 302, 317-324	5.1	28
61	Cu-Mg-Al hydrotalcite-like materials as precursors of effective catalysts for selective oxidation of ammonia to dinitrogen IThe influence of Mg/Al ratio and calcination temperature. <i>Applied Clay Science</i> , <b>2016</b> , 129, 122-130	5.2	28
60	Effective catalysts for the low-temperature NH3-SCR process based on MCM-41 modified with copper by template ion-exchange (TIE) method. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 927-937	21.8	28
59	SBA-15 mesoporous silica modified with rhodium by MDD method and its catalytic role for N2O decomposition reaction. <i>Journal of Porous Materials</i> , <b>2011</b> , 18, 483-491	2.4	27
58	Hydrotalcite derived (Cu, Mn)MgAl metal oxide systems doped with palladium as catalysts for low-temperature methanol incineration. <i>Applied Clay Science</i> , <b>2015</b> , 114, 273-282	5.2	26
57	Total oxidation of selected mono-carbon VOCs over hydrotalcite originated metal oxide catalysts. <i>Catalysis Communications</i> , <b>2012</b> , 17, 118-125	3.2	26
56	Pillared smectite modified with carbon and manganese as catalyst for SCR of NOx with NH3. Part I. General characterization and catalyst screening. <i>Catalysis Letters</i> , <b>2000</b> , 68, 95-100	2.8	26
55	SBA-15 loaded with iron by various methods as catalyst for DeNOx process. <i>Materials Research Bulletin</i> , <b>2016</b> , 78, 72-82	5.1	25
54	Determination of the pore size distribution of mesoporous silicas by means of quasi-equilibrated thermodesorption of n-nonane. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 120, 257-262	5.3	25
53	Porous clay heterostructures intercalated with multicomponent pillars as catalysts for dehydration of alcohols. <i>Applied Clay Science</i> , <b>2018</b> , 160, 116-125	5.2	25
52	Catalytic activity of MCM-48-, SBA-15-, MCF-, and MSU-type mesoporous silicas modified with Fe3+ species in the oxidative dehydrogenation of ethylbenzene in the presence of N2O. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 9808-15	2.8	24
51	MCM-41 modified with iron by template ion-exchange method as effective catalyst for DeNOx and NH 3 -SCO processes. <i>Chemical Engineering Journal</i> , <b>2016</b> , 295, 167-180	14.7	22
50	A novel stir bar sorptive-dispersive microextraction in combination with magnetically modified graphene for isolation of seven pesticides from water samples. <i>Microchemical Journal</i> , <b>2019</b> , 147, 962-9	74 <sup>.8</sup>	21

## (2011-2015)

49	Effect of Co content on the catalytic activity of CoSiBEA zeolites in N2O decomposition and SCR of NO with ammonia. <i>Catalysis Today</i> , <b>2015</b> , 258, 507-517	5.3	21	
48	Vermiculites intercalated with Al2O3 pillars and modified with transition metals as catalysts of DeNOx process. <i>Catalysis Today</i> , <b>2008</b> , 137, 242-246	5.3	20	
47	Nanostructured Colle-O systems for catalytic decomposition of N2O. Catalysis Today, 2012, 191, 121-	<b>124</b> .3	19	
46	TG study on real role of active carbon support in propane dehydrogenation with CO2. <i>Thermochimica Acta</i> , <b>2008</b> , 471, 26-32	2.9	18	
45	Dual-function hydrotalcite-derived adsorbents with sulfur storage properties: Dyes and hydrotalcite fate in adsorption-regeneration cycles. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 250, 72-87	5.3	17	
44	Experimental evidence of NO SCR mechanism in the presence of the BEA zeolite with framework and extra-framework cobalt species. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 198, 457-470	21.8	16	
43	Acid-treated vermiculites as effective catalysts of high-temperature N2O decomposition. <i>Applied Clay Science</i> , <b>2014</b> , 101, 237-245	5.2	16	
42	Nitrous Oxide Reduction with Ammonia and Methane Over Mesoporous Silica Materials Modified with Transition Metal Oxides. <i>Journal of Porous Materials</i> , <b>2005</b> , 12, 183-191	2.4	15	
41	Characterization of Co and Fe-MCM-56 catalysts for NH-SCR and NO decomposition: An in situ FTIR study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 196, 281-288	4.4	14	
40	Influence of textural and structural properties of MgAl and MgZnAl containing hydrotalcite derived oxides on Cr(VI) adsorption capacity. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 132, 929-936	4.4	14	
39	DeNOx Abatement Modelling over Sonically Prepared Copper USY and ZSM5 Structured Catalysts. <i>Catalysts</i> , <b>2017</b> , 7, 205	4	13	
38	Enhancement of Electrochemical Performance of LiMnDISpinel Cathode Material by Synergetic Substitution with Ni and S. <i>Materials</i> , <b>2016</b> , 9,	3.5	13	
37	Activating effect of cerium in hydrotalcite derived CuMgAl catalysts for selective ammonia oxidation and the selective reduction of NO with ammonia. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2017</b> , 121, 225-240	1.6	12	
36	Ferrierite and Its Delaminated and Silica-Intercalated Forms Modified with Copper as Effective Catalysts for NH3-SCR Process. <i>Catalysts</i> , <b>2020</b> , 10, 734	4	12	
35	Modified vermiculites as effective catalysts for dehydration of methanol and ethanol. <i>Catalysis Today</i> , <b>2020</b> , 355, 466-475	5.3	12	
34	Catalytic oxidation of organic sulfides by H2O2 in the presence of titanosilicate zeolites. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 302, 110219	5.3	11	
33	Montmorillonite intercalated with SiO2, SiO2-Al2O3 or SiO2-TiO2 pillars by surfactant-directed method as catalytic supports for DeNOx process. <i>Chemical Papers</i> , <b>2014</b> , 68,	1.9	11	
32	Coprecipitated CoAl and CuAl oxide catalysts for toluene total oxidation. <i>Catalysis Today</i> , <b>2011</b> , 176, 413-416	5.3	11	
	176, 413-416			

31	Oxydehydrogenation of ethylbenzene to styrene in the presence of CO2 on the catalysts obtained from [Li(Fe,Al)2(OH)6]CO3[kH2O precursors. <i>Applied Catalysis A: General</i> , <b>2003</b> , 255, 35-43	5.1	11
30	Hydrotalcite-derived Co-containing mixed metal oxide catalysts for methanol incineration. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 129, 1301-1311	4.1	10
29	MCM-22, MCM-36, and ITQ-2 Zeolites with Different Si/Al Molar Ratios as Effective Catalysts of Methanol and Ethanol Dehydration. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
28	DeNO Abatement over Sonically Prepared Iron-Substituted Y, USY and MFI Zeolite Catalysts in Lean Exhaust Gas Conditions. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	10
27	Natural Micas Intercalated with Al2O3 and Modified with Transition Metals as Catalysts of the Selective Oxidation of Ammonia to Nitrogen. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 1017-1022	2.3	10
26	Reactive and morphological trends on porous anodic TiO2 substrates obtained at different annealing temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 4376-4389	6.7	10
25	Experimental Evidence of the Mechanism of Selective Catalytic Reduction of NO with NH over Fe-Containing BEA Zeolites. <i>ChemSusChem</i> , <b>2019</b> , 12, 692-705	8.3	10
24	Enhanced catalytic performance in low-temperature NH3-SCR process of spherical MCM-41 modified with Cu by template ion-exchange and ammonia treatment. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 315, 110920	5.3	10
23	Acid-treated Clay Minerals as Catalysts for Dehydration of Methanol and Ethanol. <i>Clays and Clay Minerals</i> , <b>2020</b> , 68, 23-37	2.1	9
22	Catalytic and photocatalytic oxidation of diphenyl sulphide to diphenyl sulfoxide over titanium dioxide doped with vanadium, zinc, and tin <i>RSC Advances</i> , <b>2020</b> , 10, 4023-4031	3.7	9
21	Catalytic reduction of N2O by ethylbenzene over novel hydrotalcite-derived MgIrfleID as an alternative route for simultaneous N2O abatement and styrene production. <i>Catalysis Communications</i> , <b>2006</b> , 7, 1047-1052	3.2	9
20	Titanium dioxide doped with vanadium as effective catalyst for selective oxidation of diphenyl sulfide to diphenyl sulfonate. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 132, 1471-1480	4.1	7
19	Tuning of textural properties of mixed metal oxides by changes in anionic composition of hydrotalcite-like precursors. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 775-782	4.4	6
18	Phlogophites intercalated with Al2O3 pillars and modified with transition metals as catalysts of the DeNOx process. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2007</b> , 91, 369-378		6
17	Adsorption properties of carbonized polyacrylonitrile deposited on Ealumina and silica gel by precipitation polymerization. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 787-793	5.1	5
16	Silica and silicalitania intercalated MCM-36 modified with iron as catalysts for selective reduction of nitrogen oxides Ithe role of associated reactions. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 7940-7	95 <sup>5</sup> 4 <sup>5</sup>	5
15	Catalytic Performance of Spherical MCM-41 Modified with Copper and Iron as Catalysts of NH-SCR Process. <i>Molecules</i> , <b>2020</b> , 25,	4.8	4
14	Advances in Functionalization of Inorganic Porous Materials for Environmental Catalysis. <i>Advances in Inorganic Chemistry</i> , <b>2018</b> , 72, 323-383	2.1	4

## LIST OF PUBLICATIONS

13	Effect of rehydration conditions on the catalytic activity of hydrotalcite-derived Mg-Al oxides in aldolization of acetone. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2005</b> , 85, 383-390		4	
12	Ferrierite and Its Delaminated Forms Modified with Copper as Effective Catalysts for NH-SCO Process. <i>Materials</i> , <b>2020</b> , 13,	3.5	4	
11	Hierarchical materials originated from mesoporous MCF material and Beta zeolite nanoparticles I synthesis and catalytic activity in N2O decomposition. <i>Journal of the Chinese Advanced Materials Society</i> , <b>2013</b> , 1, 48-55		3	
10	Titanium-silicon ferrierites and their delaminated forms modified with copper as effective catalysts for low-temperature NH-SCR <i>RSC Advances</i> , <b>2021</b> , 11, 10847-10859	3.7	3	
9	Experimental and Theoretical Studies of Sonically Prepared Cull, CullSY and CullSM-5 Catalysts for SCR deNOx. <i>Catalysts</i> , <b>2021</b> , 11, 824	4	3	
8	Key Parameters of Fly Ashes Generated from the Industrial Energy Sector Decisive for Their Pro-ecological Applications. <i>Energy &amp; Decision</i> 2020, 34, 6229-6238	4.1	2	
7	INFLUENCE OF DEFECT STRUCTURE ON CATALYTIC ACTIVITY OF NANOMETRIC MATERIALS BASED ON CERIA-DOPED COPPER. <i>Functional Materials Letters</i> , <b>2011</b> , 04, 165-169	1.2	2	
6	Modified Layered Silicas as Catalysts for Conversion of Nitrogen Pollutants in Flue Gases A Review. <i>Catalysts</i> , <b>2021</b> , 11, 644	4	2	
5	Selective and efficient catalytic and photocatalytic oxidation of diphenyl sulphide to sulfoxide and sulfone: the role of hydrogen peroxide and TiO polymorph <i>RSC Advances</i> , <b>2022</b> , 12, 1862-1870	3.7	1	
4	Mesoporous silicas of MCM-41 type modified with iron species by template ion-exchange method as catalysts for the high-temperature NH3-SCR process IRole of iron species aggregation, silica morphology and associated reactions. <i>Catalysis Today</i> , <b>2021</b> ,	5.3	1	
3	Modification of MCM-22 Zeolite and Its Derivatives with Iron for the Application in N2O Decomposition. <i>Catalysts</i> , <b>2020</b> , 10, 1139	4	O	
2	Mesoporous silica-based catalysts for selective catalytic reduction of NOx with ammonia <b>R</b> ecent advances. <i>Advances in Inorganic Chemistry</i> , <b>2022</b> ,	2.1	O	
1	Dehydration of methanol and ethanol over ferrierite originated layered zeolites - the role of acidity and porous structure <i>RSC Advances</i> , <b>2022</b> , 12, 9395-9403	3.7		