

# Lucjan Chmielarz

## 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.

102  
papers

3,095  
citations

35  
h-index

51  
g-index

104  
ext. papers

3,473  
ext. citations

6.8  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
102	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
101	Mesoporous silica-based catalysts for selective catalytic reduction of NOx with ammoniaRecent advances. <i>Advances in Inorganic Chemistry</i> , <b>2022</b> ,	2.1	0
100	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	
99	Modified Layered Silicas as Catalysts for Conversion of Nitrogen Pollutants in Flue GasesA Review. <i>Catalysts</i> , <b>2021</b> , 11, 644	4	2
98	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
97	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
96	Experimental and Theoretical Studies of Sonically Prepared Cu $\gamma$ , Cu $\delta$ SY and Cu $\delta$ SM-5 Catalysts for SCR deNOx. <i>Catalysts</i> , <b>2021</b> , 11, 824	4	3
95	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
94	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
93	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	0
92	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
91	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
90	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
89	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
88	Key Parameters of Fly Ashes Generated from the Industrial Energy Sector Decisive for Their Pro-ecological Applications. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 6229-6238	4.1	2
87	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
86	Silica and silicaTitania 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, 7940-7954	5.5	5

85	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
84	Ferrierite and Its Delaminated and Silica-Intercalated Forms Modified with Copper as Effective Catalysts for NH <sub>3</sub> -SCR Process. <i>Catalysts</i> , <b>2020</b> , 10, 734	4	12
83	Modified vermiculites as effective catalysts for dehydration of methanol and ethanol. <i>Catalysis Today</i> , <b>2020</b> , 355, 466-475	5.3	12
82	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, 962-974 <sup>8</sup>	4.8	21
81	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
80	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
79	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
78	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
77	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
76	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
75	Effective catalysts for the low-temperature NH <sub>3</sub> -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
74	Activating effect of cerium in hydrotalcite derived Cu/Mg/Al 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
73	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, 107-115 <sup>8</sup>	8.4	57
72	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
71	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
70	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>10.2</sup>	10.2	51
69	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
68	DeNO <sub>x</sub> Abatement Modelling over Sonically Prepared Copper USY and ZSM5 Structured Catalysts. <i>Catalysts</i> , <b>2017</b> , 7, 205	4	13

67	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
66	MCM-41 modified with iron by template ion-exchange method as effective catalyst for DeNOx and NH <sub>3</sub> -SCO processes. <i>Chemical Engineering Journal</i> , <b>2016</b> , 295, 167-180	14.7	22
65	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
64	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
63	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
62	Enhancement of Electrochemical Performance of LiMn <sub>2</sub> O <sub>4</sub> Spinel Cathode Material by Synergetic Substitution with Ni and S. <i>Materials</i> , <b>2016</b> , 9,	3.5	13
61	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
60	Cu-Mg-Al hydrotalcite-like materials as precursors of effective catalysts for selective oxidation of ammonia to dinitrogen – The influence of Mg/Al ratio and calcination temperature. <i>Applied Clay Science</i> , <b>2016</b> , 129, 122-130	5.2	28
59	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
58	Advances in selective catalytic oxidation of ammonia to dinitrogen: a review. <i>RSC Advances</i> , <b>2015</b> , 5, 43408-43430	9.7	35
57	Effect of Co content on the catalytic activity of CoSiBEA zeolites in N <sub>2</sub> O decomposition and SCR of NO with ammonia. <i>Catalysis Today</i> , <b>2015</b> , 258, 507-517	5.3	21
56	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
55	IR studies of Fe modified ZSM-5 zeolites of diverse mesopore topologies in the terms of their catalytic performance in NH <sub>3</sub> -SCR and NH <sub>3</sub> -SCO processes. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 589-598	21.8	67
54	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
53	Influence of Cu on the catalytic activity of FeBEA zeolites in SCR of NO with NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 168-169, 377-384	21.8	28
52	Montmorillonite intercalated with SiO <sub>2</sub> , SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> or SiO <sub>2</sub> -TiO <sub>2</sub> pillars by surfactant-directed method as catalytic supports for DeNOx process. <i>Chemical Papers</i> , <b>2014</b> , 68,	1.9	11
51	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
50	Acid-treated vermiculites as effective catalysts of high-temperature N <sub>2</sub> O decomposition. <i>Applied Clay Science</i> , <b>2014</b> , 101, 237-245	5.2	16

49	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
48	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
47	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
46	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
45	Hierarchical materials originated from mesoporous MCF material and Beta zeolite nanoparticles □ synthesis and catalytic activity in N <sub>2</sub> O decomposition. <i>Journal of the Chinese Advanced Materials Society</i> , <b>2013</b> , 1, 48-55		3
44	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
43	Nanostructured CoCe-O systems for catalytic decomposition of N <sub>2</sub> O. <i>Catalysis Today</i> , <b>2012</b> , 191, 121-124	5.3	19
42	Acid-activated vermiculites as catalysts of the DeNO <sub>x</sub> process. <i>Catalysis Today</i> , <b>2012</b> , 191, 25-31	5.3	43
41	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
40	Comparison study of titania pillared interlayered clays and porous clay heterostructures modified with copper and iron as catalysts of the DeNO <sub>x</sub> process. <i>Applied Clay Science</i> , <b>2011</b> , 53, 164-173	5.2	57
39	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
38	Coprecipitated CoAl and CuAl oxide catalysts for toluene total oxidation. <i>Catalysis Today</i> , <b>2011</b> , 176, 413-416	5.3	11
37	SBA-15 mesoporous silica modified with rhodium by MDD method and its catalytic role for N <sub>2</sub> O decomposition reaction. <i>Journal of Porous Materials</i> , <b>2011</b> , 18, 483-491	2.4	27
36	Selective Catalytic Oxidation (SCO) of Ammonia to Nitrogen over Hydrotalcite Originated MgCuFe Mixed Metal Oxides. <i>Catalysis Letters</i> , <b>2011</b> , 141, 1345-1354	2.8	60
35	An influence of thermal treatment conditions of hydrotalcite-like materials on their catalytic activity in the process of N <sub>2</sub> O decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 161-170	4.1	37
34	Acid-activated vermiculites and phlogophites as catalysts for the DeNO <sub>x</sub> process. <i>Applied Clay Science</i> , <b>2010</b> , 49, 156-162	5.2	40
33	Adsorption properties of carbonized polyacrylonitrile deposited on Alumina and silica gel by precipitation polymerization. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 787-793	5.1	5
32	SBA-15 mesoporous silica modified with metal oxides by MDD method in the role of DeNO <sub>x</sub> catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 127, 133-141	5.3	50

31	Tuning of textural properties of mixed metal oxides by changes in anionic composition of hydroxalcalite-like precursors. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 775-782	4.4	6
30	Natural Micas Intercalated with Al <sub>2</sub> O <sub>3</sub> 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
29	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
28	Montmorillonite-based porous clay heterostructures (PCHs) intercalated with silica-titania pillars. Synthesis and characterization. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1094-1104	3.3	68
27	Montmorillonite, vermiculite and saponite based porous clay heterostructures modified with transition metals as catalysts for the DeNO <sub>x</sub> process. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 88, 331-340	21.8	55
26	Porous clay heterostructures (PCHs) intercalated with silica-titania pillars and modified with transition metals as catalysts for the DeNO <sub>x</sub> process. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 449-459	21.8	48
25	Chromium oxide supported on MCM-41 as a highly active and selective catalyst for dehydrogenation of propane with CO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2008</b> , 349, 62-69	5.1	91
24	TG study on real role of active carbon support in propane dehydrogenation with CO <sub>2</sub> . <i>Thermochimica Acta</i> , <b>2008</b> , 471, 26-32	2.9	18
23	Vermiculites intercalated with Al <sub>2</sub> O <sub>3</sub> pillars and modified with transition metals as catalysts of DeNO <sub>x</sub> process. <i>Catalysis Today</i> , <b>2008</b> , 137, 242-246	5.3	20
22	Phlogophites intercalated with Al <sub>2</sub> O <sub>3</sub> pillars and modified with transition metals as catalysts of the DeNO <sub>x</sub> process. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2007</b> , 91, 369-378		6
21	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
20	VO <sub>x</sub> supported SBA-15 catalysts for the oxidative dehydrogenation of ethylbenzene to styrene in the presence of N <sub>2</sub> O. <i>Catalysis Today</i> , <b>2006</b> , 114, 307-313	5.3	46
19	Catalytic reduction of N <sub>2</sub> O by ethylbenzene over novel hydroxalcalite-derived Mg-Cr-Fe as an alternative route for simultaneous N <sub>2</sub> O abatement and styrene production. <i>Catalysis Communications</i> , <b>2006</b> , 7, 1047-1052	3.2	9
18	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
17	Aldol condensation of citral and acetone over mesoporous catalysts obtained by thermal and chemical activation of magnesium-aluminum hydroxalcalite-like precursors. <i>Applied Catalysis A: General</i> , <b>2006</b> , 302, 317-324	5.1	28
16	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
15	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, 11552-8	3.4	76
14	Catalytic activity of MCM-48-, SBA-15-, MCF-, and MSU-type mesoporous silicas modified with Fe <sup>3+</sup> species in the oxidative dehydrogenation of ethylbenzene in the presence of N <sub>2</sub> O. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 9808-15	2.8	24

13	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
12	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
11	Characterisation and reactivity of vanadia/titania 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
10	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
9	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
8	Acidity and basicity of hydrotalcite derived mixed MgAl oxides studied by test reaction of MBOH conversion and temperature programmed desorption of NH <sub>3</sub> and CO <sub>2</sub> . <i>Materials Research Bulletin</i> , <b>2004</b> , 39, 263-281	5.1	96
7	Influence of redox properties on the activity of iron oxide catalysts in dehydrogenation of propane with CO <sub>2</sub> . <i>Reaction Kinetics and Catalysis Letters</i> , <b>2004</b> , 82, 121-130		49
6	Selective reduction of NO with NH <sub>3</sub> over pillared clays modified with transition metals. <i>Catalysis Today</i> , <b>2004</b> , 90, 43-49	5.3	55
5	SCR of NO by NH <sub>3</sub> 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
4	Oxydehydrogenation of ethylbenzene to styrene in the presence of CO <sub>2</sub> on the catalysts obtained from [Li(Fe,Al) <sub>2</sub> (OH) <sub>6</sub> ]CO <sub>3</sub> ·xH <sub>2</sub> O precursors. <i>Applied Catalysis A: General</i> , <b>2003</b> , 255, 35-43	5.1	11
3	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
2	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, 225-236	2.9	95
1	Pillared smectite modified with carbon and manganese as catalyst for SCR of NO <sub>x</sub> with NH <sub>3</sub> . Part I. General characterization and catalyst screening. <i>Catalysis Letters</i> , <b>2000</b> , 68, 95-100	2.8	26