

Frantisek Kovanda

List of Publications by Citations

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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.

60
papers

1,880
citations

24
h-index

42
g-index

61
ext. papers

2,019
ext. citations

5
avg, IF

4.43
L-index

#	Paper	IF	Citations
60	Modification of CoMnAl mixed oxide with potassium and its effect on deep oxidation of VOC. <i>Applied Catalysis A: General</i> , 2009 , 361, 106-116	5.1	143
59	Mixed oxides obtained from Co and Mn containing layered double hydroxides: Preparation, characterization, and catalytic properties. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 812-823	3.3	104
58	Preparation of layered double hydroxides intercalated with organic anions and their application in LDH/poly(butyl methacrylate) nanocomposites. <i>Applied Clay Science</i> , 2010 , 48, 260-270	5.2	93
57	Characterization of activated Cu/Mg/Al hydrotalcites and their catalytic activity in toluene combustion. <i>Applied Clay Science</i> , 2001 , 18, 71-80	5.2	90
56	Effect of hydrothermal treatment on properties of NiAl layered double hydroxides and related mixed oxides. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 27-36	3.3	83
55	Effect of potassium in calcined CoMnAl layered double hydroxide on the catalytic decomposition of N ₂ O. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 132-140	21.8	74
54	Catalytic decomposition of nitrous oxide over catalysts prepared from Co/Mg-Mn/Al hydrotalcite-like compounds. <i>Applied Catalysis B: Environmental</i> , 2005 , 60, 289-297	21.8	73
53	Effect of Mn/Al ratio in CoMnAl mixed oxide catalysts prepared from hydrotalcite-like precursors on catalytic decomposition of N ₂ O. <i>Catalysis Today</i> , 2007 , 119, 233-238	5.3	69
52	Crystallization of synthetic hydrotalcite under hydrothermal conditions. <i>Applied Clay Science</i> , 2005 , 28, 101-109	5.2	68
51	Effect of promoters in CoMnAl mixed oxide catalyst on N ₂ O decomposition. <i>Chemical Engineering Journal</i> , 2010 , 160, 480-487	14.7	67
50	Thermal behaviour of NiMn layered double hydroxide and characterization of formed oxides. <i>Solid State Sciences</i> , 2003 , 5, 1019-1026	3.4	65
49	Effect of precursor synthesis on catalytic activity of Co ₃ O ₄ in N ₂ O decomposition. <i>Catalysis Today</i> , 2015 , 257, 18-25	5.3	63
48	Removal of Anions from Solution by Calcined Hydrotalcite and Regeneration of Used Sorbent in Repeated Calcination-Rehydration-Anion Exchange Processes. <i>Collection of Czechoslovak Chemical Communications</i> , 1999 , 64, 1517-1528		59
47	Layered Double Hydroxides with Intercalated Porphyrins as Photofunctional Materials: Subtle Structural Changes Modify Singlet Oxygen Production. <i>Chemistry of Materials</i> , 2007 , 19, 3822-3829	9.6	54
46	Sorption of As(V) Species from Aqueous Systems. <i>Water, Air, and Soil Pollution</i> , 2003 , 149, 251-267	2.6	52
45	Supported layered double hydroxide-related mixed oxides and their application in the total oxidation of volatile organic compounds. <i>Applied Clay Science</i> , 2011 , 53, 305-316	5.2	48
44	Structure-activity relationship in the N ₂ O decomposition over Ni-(Mg)-Al and Ni-(Mg)-Mn mixed oxides prepared from hydrotalcite-like precursors. <i>Journal of Molecular Catalysis A</i> , 2006 , 248, 210-219		48

43	Preparation and characterisation of activated Ni (Mn)/Mg/Al hydrotalcites for combustion catalysis. <i>Catalysis Today</i> , 2002 , 76, 43-53	5.3	47
42	Electronic nature of potassium promotion effect in CoMnAl mixed oxide on the catalytic decomposition of N ₂ O. <i>Catalysis Communications</i> , 2011 , 12, 1055-1058	3.2	40
41	Thermal behaviour of CuMgMn and NiMgMn layered double hydroxides and characterization of formed oxides. <i>Applied Clay Science</i> , 2005 , 28, 121-136	5.2	32
40	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> , 2013 , 114, 731-747	4.1	31
39	Removal of As(V) species from extremely contaminated mining water. <i>Applied Clay Science</i> , 2005 , 28, 31-42	5.2	31
38	CoMnAl mixed oxides on anodized aluminum supports and their use as catalysts in the total oxidation of ethanol. <i>Applied Catalysis A: General</i> , 2013 , 464-465, 181-190	5.1	30
37	Thermal behaviour of synthetic pyroaurite-like anionic clay. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 71, 727-737	4.1	30
36	Intercalation of paracetamol into the hydrotalcite-like host. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 3329-3335	3.3	22
35	Activity of the NiAl Mixed Oxides Prepared from Hydrotalcite-Like Precursors in the Oxidative Dehydrogenation of Ethane and Propane. <i>Topics in Catalysis</i> , 2011 , 54, 1151-1162	2.3	22
34	Catalytic reduction of nitrous oxide with carbon monoxide over calcined CoMnAl hydrotalcite. <i>Catalysis Today</i> , 2008 , 137, 385-389	5.3	21
33	Preparation of MgAl layered double hydroxide/polyamide 6 nanocomposites using MgAlBaurate LDH as nanofiller. <i>Applied Clay Science</i> , 2015 , 114, 265-272	5.2	20
32	N ₂ O catalytic decomposition and temperature programmed desorption tests on alkali metals promoted CoMnAl mixed oxide. <i>Catalysis Today</i> , 2011 , 176, 208-211	5.3	18
31	High-temperature X-ray powder diffraction as a tool for characterization of smectites, layered double hydroxides, and their intercalates with porphyrins. <i>Applied Clay Science</i> , 2010 , 49, 363-371	5.2	17
30	Mg-Al layered double hydroxide intercalated with porphyrin anions: molecular simulations and experiments. <i>Journal of Molecular Modeling</i> , 2010 , 16, 223-33	2	17
29	Advantages of stainless steel sieves as support for catalytic N ₂ O decomposition over K-doped Co ₃ O ₄ . <i>Catalysis Today</i> , 2015 , 257, 2-10	5.3	16
28	Cobalt Oxides Supported Over Ceria/Zirconia Coated Cordierite Monoliths as Catalysts for Deep Oxidation of Ethanol and N ₂ O Decomposition. <i>Catalysis Letters</i> , 2017 , 147, 1379-1391	2.8	15
27	Photoactive Self-Standing Films Made of Layered Double Hydroxides with Arranged Porphyrin Molecules. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21700-21706	3.8	15
26	Cobalt Oxide Catalysts in the Form of Thin Films Prepared by Magnetron Sputtering on Stainless-Steel Meshes: Performance in Ethanol Oxidation. <i>Catalysts</i> , 2019 , 9, 806	4	14

25	Aluminum wire meshes coated with Co-Mn-Al and Co oxides as catalysts for deep ethanol oxidation. <i>Catalysis Today</i> , 2018 , 304, 165-171	5:3	13
24	Supported mixed oxide catalysts for the total oxidation of volatile organic compounds. <i>Catalysis Today</i> , 2011 , 176, 110-115	5:3	13
23	Preparation of cobalt oxide catalysts on stainless steel wire mesh by combination of magnetron sputtering and electrochemical deposition. <i>Catalysis Today</i> , 2019 , 334, 13-23	5:3	12
22	Total oxidation of ethanol over layered double hydroxide-related mixed oxide catalysts: Effect of cation composition. <i>Catalysis Today</i> , 2016 , 277, 61-67	5:3	12
21	Simulation of N ₂ O Abatement in Waste Gases by Its Decomposition over a K-Promoted Co-Mn-Al Mixed Oxide Catalyst. <i>Chinese Journal of Catalysis</i> , 2011 , 32, 816-820	11:3	12
20	K-Doped CoMnAl Mixed Oxide Catalyst for N ₂ O Abatement from Nitric Acid Plant Waste Gases: Pilot Plant Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7076-7084	3:9	12
19	Molecular shape selectivity of hydrotalcite in mixed aldol condensations of aldehydes and ketones. <i>Journal of Molecular Catalysis A</i> , 2008 , 285, 150-154		11
18	Voltammetric and X-ray diffraction analysis of the early stages of the thermal crystallization of mixed Cu,Mn oxides. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 252-259	2:6	11
17	Hydrotalcite-derived Co-containing mixed metal oxide catalysts for methanol incineration. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 129, 1301-1311	4:1	10
16	Mixed oxides of transition metals as catalysts for total ethanol oxidation. <i>Chemical Papers</i> , 2012 , 66,	1:9	10
15	N ₂ O catalytic decomposition Effect of pelleting pressure on activity of Co-Mn-Al mixed oxide catalysts. <i>Chemical Papers</i> , 2009 , 63,	1:9	10
14	Structured cobalt oxide catalysts for VOC abatement: the effect of preparation method. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 7608-7617	5:1	10
13	The nanoscaled metal-organic framework ICR-2 as a carrier of porphyrins for photodynamic therapy. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2960-2967	3	10
12	Cobalt Oxide Catalysts on Commercial Supports for N ₂ O Decomposition. <i>Chemical Engineering and Technology</i> , 2017 , 40, 981-990	2	8
11	Cobalt oxide catalysts supported on CeO ₂ /TiO ₂ for ethanol oxidation and N ₂ O decomposition. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 121, 121-139	1:6	6
10	The formation of layered double hydroxides on alumina surface in aqueous solutions containing divalent metal cations. <i>Clays and Clay Minerals</i> , 2009 , 57, 425-432	2:1	6
9	Rehydration of Calcined Mg-Al Hydrotalcite in Acidified Chloride-Containing Aqueous Solution. <i>Collection of Czechoslovak Chemical Communications</i> , 2007 , 72, 1284-1294		6
8	CoMnAl mixed oxides as catalysts for ammonia oxidation to N ₂ O. <i>Research on Chemical Intermediates</i> , 2016 , 42, 2669-2690	2:8	5

7	Optimization of Cs content in CoMnAl mixed oxide as catalyst for N ₂ O decomposition. <i>Research on Chemical Intermediates</i> , 2015 , 41, 9319-9332	2.8	4
6	Application of Calcined Layered Double Hydroxides as Catalysts for Abatement of N ₂ O Emissions. <i>Collection of Czechoslovak Chemical Communications</i> , 2008 , 73, 1045-1060		4
5	Hydrothermal deposition as a novel method for the preparation of Co-Mn mixed oxide catalysts supported on stainless steel meshes: application to VOC oxidation. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	2
4	Modification of Co-Mn-Al Mixed Oxide with Promoters and Their Effect on Properties and Activity in VOC Total Oxidation. <i>Collection of Czechoslovak Chemical Communications</i> , 2008 , 73, 1000-1014		1
3	Modification of Cobalt Oxide Electrochemically Deposited on Stainless Steel Meshes with Co-Mn Thin Films Prepared by Magnetron Sputtering: Effect of Preparation Method and Application to Ethanol Oxidation. <i>Catalysts</i> , 2021 , 11, 1453	4	1
2	Experimental evaluation of a kinetic method for the study of non-catalysed heterogeneous reactions in solid-liquid systems: Leaching of apatite by dilute nitric acid. <i>Journal of Chemical Technology and Biotechnology</i> , 1998 , 72, 356-364	3.5	
1	Thermal Behaviour of Layered Double Hydroxides Studied by Emanation Thermal Analysis. <i>Solid State Phenomena</i> , 2003 , 90-91, 475-480	0.4	