

Rodica Zavoianu

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51
papers

548
citations

13
h-index

20
g-index

58
ext. papers

664
ext. citations

4
avg, IF

3.56
L-index

#	Paper	IF	Citations
51	The impact of the memory effect on the catalytic activity of Mg/Al; Mg,Zn/Al; Mg/Al,Ga hydrotalcite-like compounds used as catalysts for cyclohexene epoxidation. <i>Applied Catalysis A: General</i> , 2008 , 341, 50-57	5.1	47
50	Solid base catalysts obtained from hydrotalcite precursors, for Knoevenagel synthesis of cinamic acid and coumarin derivatives. <i>Applied Catalysis A: General</i> , 2006 , 308, 13-18	5.1	41
49	Hydrotalcite like compounds with low Mo-loading active catalysts for selective oxidation of cyclohexene with hydrogen peroxide. <i>Applied Catalysis A: General</i> , 2005 , 286, 211-220	5.1	38
48	Epoxidation of Cyclohexene With H ₂ O ₂ and Acetonitrile Catalyzed by Mg/Al Hydrotalcite and Cobalt Modified Hydrotalcites. <i>Catalysis Letters</i> , 2010 , 134, 309-317	2.8	33
47	Mg/Al layered double hydroxides (LDHs) and their derived mixed oxides grown by laser techniques. <i>Applied Surface Science</i> , 2011 , 257, 5308-5311	6.7	27
46	Epoxidation of cyclohexene with O ₂ and isobutyraldehyde catalysed by cobalt modified hydrotalcites. <i>Journal of Molecular Catalysis A</i> , 2010 , 315, 178-186		27
45	The effect of ageing step elimination on the memory effect presented by Mg _{0.75} Al _{0.25} hydrotalcites (HT) and their catalytic activity for cyanoethylation reaction. <i>Catalysis Communications</i> , 2011 , 12, 845-850	3.2	24
44	Oxidative dehydrogenation of i-butane over nanostructured silica-supported NiMoO ₄ catalysts with low content of active phase. <i>Applied Catalysis A: General</i> , 2006 , 298, 40-49	5.1	20
43	Impact of the memory effect on the catalytic activity of Li/Al hydrotalcite-like compounds for the cyanoethylation reaction. <i>Materials Research Bulletin</i> , 2010 , 45, 1106-1111	5.1	18
42	Isobutane oxydehydrogenation on SiO ₂ -supported nickel molybdate catalysts: Effect of the active phase loading. <i>Catalysis Communications</i> , 2002 , 3, 85-90	3.2	18
41	Highlights on the Catalytic Properties of Polyoxometalate-Intercalated Layered Double Hydroxides: A Review. <i>Catalysts</i> , 2020 , 10, 57	4	17
40	Stabilisation of NiMoO ₄ in TiO ₂ -supported catalysts. <i>Catalysis Communications</i> , 2001 , 2, 37-42	3.2	15
39	Addition of Alcohols to Acrylic Compounds Catalyzed by Mg/Al LDH. <i>Catalysis Letters</i> , 2014 , 144, 117-122	2.8	14
38	Layered double hydroxides/polymer thin films grown by matrix assisted pulsed laser evaporation. <i>Thin Solid Films</i> , 2013 , 543, 63-68	2.2	12
37	Comparison between Me/Mg/Al hydrotalcites and hydrotalcite-supported Me(II) acetylacetonates (Me(II)=Co, Cu or Ni) catalysts for the epoxidation of cyclohexene with molecular oxygen. <i>Applied Clay Science</i> , 2011 , 52, 1-10	5.2	12
36	Oxidative dehydrogenation of butane over substoichiometric magnesium vanadate catalysts prepared by citrate route. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1488-1497	3.9	12
35	Transition metal coordination polymers MeX ₂ (4,4'-bipyridine) (Me=Co, Ni, Cu; X=Cl, CH ₃ OCO) acetylacetonate) selective catalysts for cyclohexene epoxidation with molecular oxygen and isobutyraldehyde. <i>Journal of Molecular Catalysis A</i> , 2012 , 352, 21-30		11

34	Retention of heavy metals on layered double hydroxides thin films deposited by pulsed laser deposition. <i>Applied Surface Science</i> , 2014 , 302, 99-104	6.7	11
33	Mechanochemical versus co-precipitated synthesized lanthanum-doped layered materials for olefin oxidation. <i>Applied Catalysis A: General</i> , 2017 , 542, 10-20	5.1	10
32	The investigation of NiAl and CoAl based layered double hydroxides and their derived mixed oxides thin films deposited by pulsed laser deposition. <i>Applied Surface Science</i> , 2013 , 278, 122-126	6.7	10
31	Ethylene selective dimerization on polymer complex catalyst of Ni(4,4'-bipyridine)Cl ₂ coactivated with AlCl(C ₂ H ₅) ₂ . <i>Journal of Molecular Catalysis A</i> , 2004 , 219, 13-19		10
30	Functional layered double hydroxides and their catalytic activity for 1,4-addition of n-octanol to 2-propenitrile. <i>Applied Clay Science</i> , 2017 , 146, 411-422	5.2	9
29	Ni(2,2'-bipyridine) ₂ Cl ₂ encapsulated in Y zeolite new catalyst for ethylene dimerization. <i>Catalysis Communications</i> , 2005 , 6, 415-420	3.2	9
28	Pulsed laser deposition of MgAl layered double hydroxide with Ag nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 841-846	2.6	8
27	1-Octene metathesis on silica supported Zr-doped NiMoO ₄ catalysts. <i>Catalysis Communications</i> , 2005 , 6, 321-327	3.2	8
26	Study of the Acid-Base Properties of SiO ₂ -Supported NiMoO ₄ Catalysts by Temperature-Programmed Desorption. Effect of the Active Phase Content. <i>Reaction Kinetics and Catalysis Letters</i> , 2001 , 72, 201-208		7
25	A comparative study on the catalytic activity of ZnAl, NiAl, and CoAl mixed oxides derived from LDH obtained by mechanochemical method in the synthesis of 2-methylpyrazine. <i>Catalysis Communications</i> , 2020 , 133, 105829	3.2	7
24	Oxidation of tert-butanethiol with air using Mo-containing hydrotalcite-like compounds and their derived mixed oxides as catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 105, 145-162	1.6	6
23	Effect of hydration temperature on the structure reconstruction of MgAlY layered materials. <i>Comptes Rendus Chimie</i> , 2018 , 21, 318-326	2.7	6
22	Exploring an alternative route for meixnerite synthesis. The impact of the gaseous environment on the reconstruction of the lamellar structure and the catalytic performances. <i>Applied Clay Science</i> , 2015 , 104, 59-65	5.2	5
21	Growth and characterization of ternary Ni, MgAl and NiAl layered double hydroxides thin films deposited by pulsed laser deposition. <i>Thin Solid Films</i> , 2016 , 614, 36-41	2.2	5
20	Adsorption properties of MgAl layered double hydroxides thin films grown by laser based techniques. <i>Applied Surface Science</i> , 2012 , 258, 9466-9470	6.7	5
19	Hybrid layered double hydroxides-curcumin thin films deposited via Matrix Assisted Pulsed Laser Evaporation-MAPLE with photoluminescence properties. <i>Applied Surface Science</i> , 2019 , 478, 754-761	6.7	4
18	Complex Catalytic Materials Based on the Perovskite-Type Structure for Energy and Environmental Applications. <i>Materials</i> , 2020 , 13,	3.5	4
17	Pulsed laser deposition of functionalized MgAl layered double hydroxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	4

16	Organo-layered double hydroxides composite thin films deposited by laser techniques. <i>Applied Surface Science</i> , 2016 , 374, 326-330	6.7	4
15	Mechano-chemical versus co-precipitation for the preparation of Y-modified LDHs for cyclohexene oxidation and Claisen-Schmidt condensations. <i>Applied Catalysis A: General</i> , 2020 , 605, 117797	5.1	4
14	Catalytic behavior of Li-Al-LDH prepared via mechanochemical and co-precipitation routes for cyanoethylation reaction. <i>Catalysis Today</i> , 2021 , 366, 227-234	5.3	4
13	Alternative valorization of red mud waste as functional materials with catalytic activity for sulfide oxidation in wastewater. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 895-908	3.3	4
12	Curcumin Incorporation into Zn ₃ Al Layered Double Hydroxides Preparation, Characterization and Curcumin Release. <i>Crystals</i> , 2020 , 10, 244	2.3	3
11	Detection of copper ions from aqueous solutions using layered double hydroxides thin films deposited by PLD. <i>Applied Surface Science</i> , 2015 , 352, 184-188	6.7	3
10	New ways to use the red mud waste as raw material for inorganic- organic hybrid hydrogels. <i>International Journal of Mineral Processing</i> , 2017 , 169, 111-118		2
9	Study of the acid-base properties of SiO ₂ -supported NiMoO ₄ catalysts by temperature-programmed desorption: effect of the support. <i>Reaction Kinetics and Catalysis Letters</i> , 2002 , 77, 317-324		2
8	The Influence of the Preparation of Zr(OH) ₄ Precursor on the Catalytic Performances of ZrO ₂ /SO ₄ ²⁻ in the Isomerization of n-butane. <i>Revista De Chimie (discontinued)</i> , 2008 , 59, 292-296	1.8	2
7	Ce-Containing MgAl-Layered Double Hydroxide-Graphene Oxide Hybrid Materials as Multifunctional Catalysts for Organic Transformations. <i>Materials</i> , 2021 , 14,	3.5	2
6	The Influence of the Preparation Method on the Physico-Chemical Properties and Catalytic Activities of Ce-Modified LDH Structures Used as Catalysts in Condensation Reactions. <i>Molecules</i> , 2021 , 26,	4.8	1
5	Enhanced voltammetric response of monosodium glutamate on screen-printed electrodes modified with NiAl layered double hydroxide films. <i>Surfaces and Interfaces</i> , 2021 , 24, 101055	4.1	1
4	Soft synthesis and characterization of goethite-based nanocomposites as promising cyclooctene oxidation catalysts.. <i>RSC Advances</i> , 2021 , 11, 27589-27602	3.7	1
3	Green Epoxidation of Olefins with Zn _x Al/Mg _x Al-LDH Compounds: Influence of the Chemical Composition. <i>Catalysts</i> , 2022 , 12, 145	4	0
2	LDH-interlayered nanostructures for biomedical and environmental applications 2019 , 259-284		
1	Oxidative Dehydrogenation of Isobutane on SiO ₂ -Supported Nickel Molybdate Catalysts: Effect of the Active Phase Loading. <i>Chemie-Ingenieur-Technik</i> , 2001 , 73, 667-668	0.8	