

Cristina Martin

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#	Paper	IF	Citations
103	Intercalation of drugs in layered double hydroxides and their controlled release: A review. <i>Applied Clay Science</i> , 2014 , 88-89, 239-269	5.2	274
102	Preparation Characterization and Photocatalytic Activity of Polycrystalline ZnO/TiO ₂ Systems. 2. Surface, Bulk Characterization, and 4-Nitrophenol Photodegradation in Liquid/Solid Regime. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1033-1040	3.4	241
101	Preparation Characterization and Photocatalytic Activity of Polycrystalline ZnO/TiO ₂ Systems. 1. Surface and Bulk Characterization. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1026-1032	3.4	200
100	Layered double hydroxides as drug carriers and for controlled release of non-steroidal anti-inflammatory drugs (NSAIDs): a review. <i>Journal of Controlled Release</i> , 2013 , 169, 28-39	11.7	170
99	Mg,Al layered double hydroxides with intercalated indomethacin: synthesis, characterization, and pharmacological study. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 1649-58	3.9	150
98	Synthesis and characterization of layered double hydroxides (LDH) intercalated with non-steroidal anti-inflammatory drugs (NSAID). <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3954-3962	3.3	115
97	A comparative study between chloride and calcined carbonate hydrotalcites as adsorbents for Cr(VI). <i>Applied Clay Science</i> , 2007 , 37, 231-239	5.2	96
96	Effect of the Mg:Al Ratio on Borate (or Silicate)/Nitrate Exchange in Hydrotalcite. <i>Journal of Solid State Chemistry</i> , 2000 , 151, 272-280	3.3	92
95	Zn,Al hydrotalcites calcined at different temperatures: Preparation, characterization and photocatalytic activity in gas/solid regime. <i>Journal of Molecular Catalysis A</i> , 2011 , 342-343, 83-90		83
94	Surface characterisation of metal ions loaded TiO ₂ photocatalysts: structure-activity relationship. <i>Applied Catalysis B: Environmental</i> , 2004 , 48, 223-233	21.8	81
93	Release studies of different NSAIDs encapsulated in Mg,Al,Fe-hydrotalcites. <i>Applied Clay Science</i> , 2009 , 42, 538-544	5.2	74
92	Structural Analysis of Silica-Supported Tungstates. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2759-2768	3.4	71
91	Characterization by temperature programmed reduction. <i>Catalysis Today</i> , 2000 , 56, 347-355	5.3	69
90	Physico-chemical properties of WO ₃ /TiO ₂ systems employed for 4-nitrophenol photodegradation in aqueous medium. <i>Catalysis Letters</i> , 1997 , 49, 235-243	2.8	68
89	Influence of tungsten oxide on structural and surface properties of sol-gel prepared TiO ₂ employed for 4-nitrophenol photodegradation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 819-829		63
88	Surface properties of iron-titania photocatalysts employed for 4-nitrophenol photodegradation in aqueous TiO ₂ dispersion. <i>Catalysis Letters</i> , 1994 , 24, 303-315	2.8	62
87	Structural and texture evolution with temperature of layered double hydroxides intercalated with paramolybdate anions. <i>Inorganic Chemistry</i> , 2006 , 45, 1243-51	5.1	53

86	Nb2O5-supported WO3: a comparative study with WO3/Al2O3. <i>Catalysis Today</i> , 2003 , 78, 365-376	5.3	53
85	Preparation and characterisation of TiO2 (anatase) supported on TiO2 (rutile) catalysts employed for 4-nitrophenol photodegradation in aqueous medium and comparison with TiO2 (anatase) supported on Al2O3. <i>Applied Catalysis B: Environmental</i> , 1999 , 20, 29-45	21.8	50
84	Synthesis and characterization of new Mg(2)Al-paratungstate layered double hydroxides. <i>Inorganic Chemistry</i> , 2004 , 43, 375-84	5.1	48
83	Structural and surface characterization of the polycrystalline system CrxOy □TiO2 employed for photoreduction of dinitrogen and photodegradation of phenol. <i>Journal of Catalysis</i> , 1992 , 134, 434-444	7.3	48
82	Influence of the inorganic matrix nature on the sustained release of naproxen. <i>Microporous and Mesoporous Materials</i> , 2010 , 130, 229-238	5.3	46
81	PMo or PW heteropoly acids supported on MCM-41 silica nanoparticles: Characterisation and FT-IR study of the adsorption of 2-butanol. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2046-2057	3.3	46
80	An FT-IR study of the adsorption of pyridine, formic acid and acetic acid on magnesia and molybdena-magnesia. <i>Journal of Molecular Catalysis</i> , 1992 , 73, 51-63		45
79	Intercalation of [Cr(C2O4)3]3 - complex in mg,al layered double hydroxides. <i>Inorganic Chemistry</i> , 2003 , 42, 4232-40	5.1	44
78	A FTIR spectroscopic study of surface acidity and basicity of mixed Mg, Al-oxides obtained by thermal decomposition of hydrotalcite. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993 , 49, 1575-1582		44
77	Effect of thermal treatments on the properties of V2O5/TiO2 and MoO3/TiO2 systems. <i>Journal of Catalysis</i> , 1986 , 99, 19-27	7.3	41
76	Chapter 4 Characterization of V2O5-TiO2 Eurocat catalysts by vibrational and electronic spectroscopies. <i>Catalysis Today</i> , 1994 , 20, 61-76	5.3	36
75	FT-IR Assessment Through Pyridine Adsorption of the Surface Acidity of Alkali-Doped MoO3/TiO2. <i>Journal of Catalysis</i> , 1994 , 146, 415-421	7.3	36
74	Adsorption and Desorption of N-Methyl 8-Hydroxy Quinoline Methyl Sulfate on Smectite and the Potential Use of The Clay-Organic Product as an Ultraviolet Radiation Collector. <i>Clays and Clay Minerals</i> , 1989 , 37, 157-163	2.1	36
73	Intercalation of mefenamic and meclofenamic acid anions in hydrotalcite-like matrixes. <i>Applied Clay Science</i> , 2007 , 36, 133-140	5.2	35
72	An FT-IR spectroscopy study of the adsorption and oxidation of propene on multiphase Bi, Mo and Co catalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1996 , 52, 1107-1118	4.4	34
71	Solubility and release of fenbufen intercalated in Mg, Al and Mg, Al, Fe layered double hydroxides (LDH): The effect of Eudragit □ S 100 covering. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 3002-3009	3.3	32
70	Tungstophosphoric acid supported on polycrystalline TiO2 for the photodegradation of 4-nitrophenol in aqueous solution and propan-2-ol in vapour phase. <i>Applied Catalysis A: General</i> , 2009 , 356, 172-179	5.1	30
69	Preparation, characterization and photocatalytic activity of TiO2 impregnated with the heteropolyacid H3PW12O40: Photo-assisted degradation of 2-propanol in gas/solid regime. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 497-506	21.8	30

68	Inclusion and release of fenbufen in mesoporous silica. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 3372-80	3.9	27
67	Rotational fluctuations of water confined to layered oxide materials: nonmonotonous temperature dependence of relaxation times. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 5166-75	2.8	25
66	Surface area and porosity, X-ray diffraction and chemical analyses. <i>Catalysis Today</i> , 2000 , 56, 335-346	5.3	25
65	Characterisation by vibrational and electronic spectroscopies. <i>Catalysis Today</i> , 2000 , 56, 361-370	5.3	25
64	A FTIR spectroscopy study of isopropanol reactivity on alkali-metal-doped MoO ₃ /TiO ₂ catalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1996 , 52, 733-740	4.4	25
63	Reactivity of vanadia with silica, alumina, and titania surfaces. <i>Langmuir</i> , 1990 , 6, 801-806	4	25
62	FTIR study of isopropanol reactivity on calcined layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 119-126	3.6	24
61	Sodium-doped V ₂ O ₅ /TiO ₂ systems: An XRD, DTA, TG/DTG, IR, V-UV, TPR, and XANES study. <i>Journal of Catalysis</i> , 1992 , 134, 47-57	7.3	24
60	Characterization of Chromium Ion-Doped Titania by FTIR and XPS. <i>Journal of Catalysis</i> , 1994 , 147, 115-123	2.3	23
59	Solubility and release of fenamates intercalated in layered double hydroxides. <i>Clay Minerals</i> , 2008 , 43, 255-265	1.3	22
58	Surface structure and reactivity of molybdena-titania catalysts prepared by different methods. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 1071-1078		22
57	Metatungstate and tungstoniobate-containing LDHs: Preparation, characterisation and activity in epoxidation of cyclooctene. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1872-1880	3.9	21
56	Acid and redox properties of mixed oxides prepared by calcination of chromate-containing layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3571-3580	3.3	20
55	FT-IR Spectroscopy Study of Surface Acidity and 2-Propanol Decomposition on Mixed Oxides Obtained upon Calcination of Layered Double Hydroxides. <i>Langmuir</i> , 1997 , 13, 2303-2306	4	19
54	Microporosity and Acidity Properties of Alumina Pillared Titanates. <i>Langmuir</i> , 1999 , 15, 1090-1095	4	19
53	An FT-IR study of the adsorption of isopropanol on calcined layered double hydroxides containing isopolymolybdate. <i>Catalysis Today</i> , 2007 , 126, 153-161	5.3	18
52	Hydrotalcites composition as catalysts: Preparation and their behavior on epoxidation of two bicycloalkenes. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 39-47	5.3	18
51	Selective oxidation of isobutene to methacrolein on multiphasic molybdate-based catalysts. <i>Applied Catalysis A: General</i> , 1996 , 135, 95-123	5.1	18

50	Probing the surface acidity of lithium aluminium and magnesium aluminium layered double hydroxides. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1917-1925		17
49	Thermal Evolution of a MgAl Hydrotalcite-Like Material Intercalated with Hexaniobate. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4608-4615	2.3	17
48	Changes in the Structure of TiO ₂ -Supported Molybdena Induced by Na-Doping. <i>Journal of Catalysis</i> , 1994 , 147, 465-475	7.3	17
47	Surface reactivity and morphology of vanadia-titania catalysts. <i>Surface Science</i> , 1991 , 251-252, 825-830	1.8	16
46	Surface dispersion of molybdena supported on silica, alumina and titania. <i>Journal of Materials Chemistry</i> , 1993 , 3, 1313-1318		15
45	Chapter 3.1 Surface area and porosity. <i>Catalysis Today</i> , 1994 , 20, 11-16	5.3	15
44	An FT-IR study of the adsorption and reactivity of ethanol on systems derived from Mg ₂ Al ₂ (OH) ₆ (NO ₃) ₂ layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 465-470	3.6	14
43	Fourier-transform infrared study of the oxidation of ethene on MoO ₃ /TiO ₂ catalysts doped with alkali metals. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 4131		14
42	A FTIR Study of Surface Nucleophilicity of TiO ₂ and MoO ₃ /TiO ₂ Doped with Alkaline Cations. <i>Journal of Catalysis</i> , 1994 , 145, 239-242	7.3	14
41	New route for the synthesis of V ₂ O ₅ -MgO oxidative dehydrogenation catalysts. <i>Journal of Materials Science Letters</i> , 1987 , 6, 616-619		14
40	Physicochemical characterization of WO ₃ /ZrO ₂ and WO ₃ /Nb ₂ O ₅ catalysts and their photoactivity for 4-nitrophenol photooxidation in aqueous dispersion. <i>Journal of Materials Science</i> , 1997 , 32, 6039-6047	4.3	13
39	Characterization and acidic properties of silicapillared titanates. <i>Journal of Materials Chemistry</i> , 2001 , 11, 841-845		13
38	Alkaline-Metal Doped MoO ₃ /TiO ₂ Systems: Structure of Supported Molybdates. <i>Journal of Catalysis</i> , 1996 , 161, 87-95	7.3	13
37	A laser Raman spectroscopy study of molybdenum oxide supported on alumina and titania. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994 , 50, 2215-2221		13
36	Selective oxidation of propene to acrolein on VO _x TiO ₂ systems containing sodium. <i>Journal of Molecular Catalysis</i> , 1988 , 48, 381-391		13
35	Structure and Properties of Tungstates Formed in W/MgO Systems. <i>Journal of Catalysis</i> , 1997 , 169, 516-526	7.3	12
34	A FT-IR Study of the Reactivity of Tungsta-Supported Catalysts toward Butan-2-ol. <i>Langmuir</i> , 2001 , 17, 6968-6973	4	11
33	Effect of sodium on the reductibility of V(V) ions during propene adsorption on V ₂ O ₅ /TiO ₂ catalysts. <i>Journal of Catalysis</i> , 1988 , 114, 473-477	7.3	11

32	Photoactivity of nanostructured TiO ₂ catalysts in aqueous system and their surface acid-base, bulk and textural properties. <i>Research on Chemical Intermediates</i> , 2007 , 33, 465-479	2.8	10
31	Physicochemical characterization of oxide Co-TiO ₂ and Mn-TiO ₂ systems. <i>Journal of Materials Science</i> , 1985 , 20, 1427-1433	4.3	10
30	Texture properties of titanium dioxide. <i>Powder Technology</i> , 1986 , 46, 1-11	5.2	10
29	Catalytic activity of NiMo/TiO ₂ /Al ₂ O ₃ systems in thiophene hydrodesulfurization. <i>Reaction Kinetics and Catalysis Letters</i> , 1995 , 54, 203-208		9
28	The effect of the preparation method on the nature and dispersion of surface species formed upon reaction of molybdenum trioxide with alumina and titania. <i>Journal of Materials Science</i> , 1996 , 31, 1561-1567	4.7	9
27	Evolution during calcination of Mo-Fe oxidation catalysts doped with chromium. <i>Materials Chemistry and Physics</i> , 1989 , 23, 517-528	4.4	9
26	V ₂ O ₅ /TiO ₂ oxidation catalysts: Effect of sodium impurities and of the precursor salt on their texture. <i>Journal of Colloid and Interface Science</i> , 1987 , 120, 469-476	9.3	9
25	Propane oxidative dehydrogenation over V-containing mixed oxides derived from decavanadate-exchanged ZnAl layered double hydroxides prepared by a sol-gel method. <i>Comptes Rendus Chimie</i> , 2018 , 21, 210-220	2.7	8
24	Characterization of MoO ₃ -P ₂ O ₅ -ZrO ₂ catalysts: an oxide-supported mixed oxide. <i>Materials Chemistry and Physics</i> , 1998 , 55, 173-187	4.4	8
23	Vanadia-titania and vanadia-zirconia catalysts: preparation and characterization. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 1543-1550	3.6	8
22	Heterogeneous Catalysis by Polyoxometalate-Intercalated Layered Double Hydroxides 2010 , 319-397		8
21	Influence of the active phase structure Bi-Mo-Ti-O in the selective oxidation of propene. <i>Catalysis Today</i> , 2006 , 112, 121-125	5.3	7
20	Characterization of Chromate-Intercalated Layered Double Hydroxides. <i>Materials Science Forum</i> , 2006 , 514-516, 1541-1545	0.4	6
19	Oxidation catalysts obtained by supporting molybdena on silica, alumina and titania. <i>Studies in Surface Science and Catalysis</i> , 1992 , 72, 415-422	1.8	6
18	Dexketoprofen and aceclofenac release from layered double hydroxide and SBA-15 ordered mesoporous material. <i>Applied Clay Science</i> , 2016 , 121-122, 9-16	5.2	5
17	Chapter 3.2 X-ray diffraction analysis. <i>Catalysis Today</i> , 1994 , 20, 17-21	5.3	5
16	Dispersion of molybdena on the surface of titania: the effect of potassium. <i>Journal of Materials Science</i> , 1992 , 27, 5575-5579	4.3	5
15	Influence of the Surface Acidity of the Alumina on the Sustained Release of Ketoprofen. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 2146-54	3.9	4

14	Effect of sulphate removal on the surface texture and acid-base properties of TiO ₂ (anatase). <i>Journal of Materials Science</i> , 1995 , 30, 3847-3852	4-3	4
13	Chapter 3.4 A TG/DTA study of V ₂ O ₅ /TiO ₂ eurocat catalysts and of their precursors. <i>Catalysis Today</i> , 1994 , 20, 35-44	5-3	4
12	FT-IR Spectroscopy Study of Isopropanol Reactivity on Silica-Supported Heteropolyanions. <i>Spectroscopy Letters</i> , 1997 , 30, 963-974	1-1	3
11	Characterisation by thermal techniques. <i>Catalysis Today</i> , 2000 , 56, 357-359	5-3	3
10	Characterization and Fourier transform infrared spectroscopic study of surface acidity in NiMo/TiO ₂ -Al ₂ O ₃ catalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1995 , 51, 1837-1845	4-4	3
9	Adsorption and oxidation of propan-2-ol on WO ₃ /MgO. <i>Reaction Kinetics and Catalysis Letters</i> , 1996 , 58, 243-248		3
8	A FTIR assessment of surface acidity and dispersion of surface species in titania and alumina-supported molybdena. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994 , 50, 697-702		3
7	V ₂ O ₅ /TiO ₂ oxidation catalysts. II. Texture properties. <i>Reaction Kinetics and Catalysis Letters</i> , 1987 , 33, 393-398		2
6	V ₂ O ₅ /TiO ₂ oxidation catalysts, III. Oxidation of CO on pure and sodium-doped systems. <i>Reaction Kinetics and Catalysis Letters</i> , 1988 , 36, 401-406		2
5	An FT-IR spectroscopic assessment of the surface basicity of calcia. <i>Reaction Kinetics and Catalysis Letters</i> , 1993 , 49, 139-144		1
4	V ₂ O ₅ /TiO ₂ oxidation catalysts. I. Preparation and characterization by XRD and IR spectroscopy. <i>Reaction Kinetics and Catalysis Letters</i> , 1987 , 33, 381-386		1
3	A Laser Raman Study of Multiphase Co-Bi-Mo Oxide Catalysts. <i>Spectroscopy Letters</i> , 1998 , 31, 1299-1311	1.1	
2	Isopropanol reactivity on SiO ₂ -supported heteropolyanions. <i>Reaction Kinetics and Catalysis Letters</i> , 1996 , 59, 197-202		
1	V ₂ O ₅ /TiO ₂ oxidation catalysts, IV. Adsorption of acrolein on sodium-containing systems. <i>Reaction Kinetics and Catalysis Letters</i> , 1989 , 38, 405-410		