

Simona Margareta Coman

List of Publications by Year in descending order

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101
papers

3,160
citations

136950

32
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168389

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101
all docs

101
docs citations

101
times ranked

3686
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic transformation of the marine polysaccharide ulvan into rare sugars, tartaric and succinic acids. <i>Catalysis Today</i> , 2022, 383, 345-357.	4.4	15
2	Niobia-based magnetic nanocomposites: Design and application in direct glucose dehydration to HMF. <i>Catalysis Today</i> , 2021, 366, 48-56.	4.4	7
3	From useless humins by-product to Nb@graphite-like carbon catalysts highly efficient in HMF synthesis. <i>Applied Catalysis A: General</i> , 2021, 618, 118130.	4.3	18
4	Diastereoselective hydrogenation of Formoterol intermediate over M(Ir, Pd, Pt, Rh, Ru)/BEA zeolite catalysts. <i>Catalysis Today</i> , 2020, 354, 100-108.	4.4	0
5	Magnetic Fe@Y Composites as Efficient Recoverable Catalysts for the Valorization of the Recalcitrant Marine Sulfated Polysaccharide Ulvan. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 319-328.	6.7	6
6	Nanometer-thick films of antimony oxide nanoparticles grafted on defective graphenes as heterogeneous base catalysts for coupling reactions. <i>Journal of Catalysis</i> , 2020, 390, 135-149.	6.2	5
7	Optimized Nb-Based Zeolites as Catalysts for the Synthesis of Succinic Acid and FDCA. <i>Molecules</i> , 2020, 25, 4885.	3.8	11
8	Multifunctional nanocomposites with non-precious metals and magnetic core for 5-HMF oxidation to FDCA. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119309.	20.2	54
9	Efficient glucose dehydration to HMF onto Nb-BEA catalysts. <i>Catalysis Today</i> , 2019, 325, 109-116.	4.4	67
10	Nitrogen-doped graphene as metal free basic catalyst for coupling reactions. <i>Journal of Catalysis</i> , 2019, 376, 238-247.	6.2	18
11	Green catalytic synthesis of phenprocoumon. <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 2019, 64, 47-58.	0.2	0
12	Levulinate-intercalated LDH: A potential heterogeneous organocatalyst for the green epoxidation of α,β -unsaturated esters. <i>Catalysis Today</i> , 2018, 306, 154-165.	4.4	9
13	Catalytic features of Nb-based nanoscopic inorganic fluorides for an efficient one-pot conversion of cellulose to lactic acid. <i>Catalysis Today</i> , 2018, 306, 102-110.	4.4	9
14	New organic-inorganic LDH composites: Synthesis, characterization and catalytic behavior in the green epoxidation of α,β -unsaturated esters. <i>Inorganica Chimica Acta</i> , 2018, 475, 127-132.	2.4	5
15	Upgrade of 5-Hydroxymethylfurfural to Dicarboxylic Acids onto Multifunctional-Based $\text{Fe}_3\text{O}_4/\text{SiO}_2$ Magnetic Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14292-14301.	6.7	31
16	Bimetallic Oriented ($\text{Au}/\text{Cu}_2\text{O}$) vs. Monometallic 1.1.1 Au (0) or 2.0.0 Cu_2O Graphene-Supported Nanoplatelets as Very Efficient Catalysts for Michael and Henry Additions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6185-6190.	2.4	3
17	Functionalised heterogeneous catalysts for sustainable biomass valorisation. <i>Chemical Society Reviews</i> , 2018, 47, 8349-8402.	38.1	493
18	Highly Efficient, Easily Recoverable, and Recyclable $\text{Re}@\text{SiO}_2/\text{Fe}_3\text{O}_4$ Catalyst for the Fragmentation of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9606-9618.	6.7	17

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19	Graphene Film-Supported Oriented 1.1.1 Gold(0) Versus 2.0.0 Copper(I) Nanoplatelets as Very Efficient Catalysts for Coupling Reactions. <i>Topics in Catalysis</i> , 2018, 61, 1449-1457.	2.8	3
20	From Glucose Direct to Succinic Acid: an Optimized Recyclable Bi-functional Ru@MNP-MWCNT Catalyst. <i>Topics in Catalysis</i> , 2018, 61, 1866-1876.	2.8	6
21	Lignin Fragmentation onto Multifunctional Fe ₃ O ₄ @Nb ₂ O ₅ @Co@Re Catalysts: The Role of the Composition and Deposition Route of Rhenium. <i>ACS Catalysis</i> , 2017, 7, 3257-3267.	11.2	28
22	High hexitols selectivity in cellulose hydrolytic hydrogenation over platinum (Pt) vs. ruthenium (Ru) catalysts supported on micro/mesoporous carbon. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 1-14.	20.2	57
23	RuCl ₃ Supported on N-Doped Graphene as a Reusable Catalyst for the One-Step Glucose Oxidation to Succinic Acid. <i>ChemCatChem</i> , 2017, 9, 3314-3321.	3.7	20
24	Direct conversion of cellulose to $\hat{\pm}$ -hydroxy acids (AHAs) over Nb ₂ O ₅ -SiO ₂ -coated magnetic nanoparticles. <i>Green Processing and Synthesis</i> , 2017, 6, .	3.4	11
25	N-Doped graphene as a metal-free catalyst for glucose oxidation to succinic acid. <i>Green Chemistry</i> , 2017, 19, 1999-2005.	9.0	50
26	Graphene oxide as a catalyst for the diastereoselective transfer hydrogenation in the synthesis of prostaglandin derivatives. <i>Chemical Communications</i> , 2017, 53, 10271-10274.	4.1	8
27	Efficient magnetic recoverable acid-functionalized-carbon catalysts for starch valorization to multiple bio-chemicals. <i>Catalysis Today</i> , 2017, 279, 45-55.	4.4	14
28	Nb-Based Zeolites: Efficient bi-Functional Catalysts for the One-Pot Synthesis of Succinic Acid from Glucose. <i>Molecules</i> , 2017, 22, 2218.	3.8	20
29	One-Step Pyrolysis Preparation of 1.1.1 Oriented Gold Nanoplatelets Supported on Graphene and Six Orders of Magnitude Enhancement of the Resulting Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 607-612.	13.8	37
30	Lignin fragmentation over magnetically recyclable composite Co@Nb ₂ O ₅ @Fe ₃ O ₄ catalysts. <i>Journal of Catalysis</i> , 2016, 339, 209-227.	6.2	37
31	Unprecedented Catalytic Wet Oxidation of Glucose to Succinic Acid Induced by the Addition of <i>n</i> -Butylamine to a Ru ^{III} Catalyst. <i>ChemSusChem</i> , 2016, 9, 2307-2311.	6.8	32
32	d-Glucose hydrogenation/hydrogenolysis reactions on noble metal (Ru, Pt)/activated carbon supported catalysts. <i>Catalysis Today</i> , 2015, 257, 281-290.	4.4	81
33	Direct oxidation of amines to nitriles in the presence of ruthenium-terpyridyl complex immobilized on ILs/SILP. <i>Catalysis Science and Technology</i> , 2015, 5, 2696-2704.	4.1	18
34	Nonprecious Metals Catalyzing Hydroamination and C=C/N Coupling Reactions. <i>Organic Process Research and Development</i> , 2015, 19, 1327-1355.	2.7	88
35	Nb ₅ F ₁₅ @AlF ₃ Catalysts: Design, Synthesis, and Application in Lactic Acid Synthesis from Cellulose. <i>ACS Catalysis</i> , 2015, 5, 3013-3026.	11.2	66
36	High catalytic activity of oriented 2.0.0 copper(I) oxide grown on graphene film. <i>Nature Communications</i> , 2015, 6, 8561.	12.8	63

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37	Magnetic nanocomposites for an efficient valorization of biomass. <i>Journal of Applied Physics</i> , 2015, 117, 17D724.	2.5	12
38	Efficient magnetic and recyclable SBILC (supported basic ionic liquid catalyst)-based heterogeneous organocatalysts for the asymmetric epoxidation of trans-methylcinnamate. <i>Catalysis Science and Technology</i> , 2015, 5, 729-737.	4.1	16
39	Heterogeneous Diastereoselective Catalysis - A Powerful Strategy Toward C(15) Stereoselectivity from PGF ₂ Analogues Structure. <i>Current Pharmaceutical Design</i> , 2015, 21, 5558-5572.	1.9	4
40	Cellulose Capitalization to Bio-chemicals in the Presence of Magnetic Nanoparticle Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 1463-1469.	2.8	11
41	Comparative hydroamination of aniline and substituted anilines with styrene on different zeolites, triflate based catalysts and their physical mixtures. <i>Applied Catalysis A: General</i> , 2014, 474, 230-235.	4.3	8
42	The hydrolytic hydrogenation of cellulose to sorbitol over M (Ru, Ir, Pd, Rh)-BEA-zeolite catalysts. <i>Catalysis Today</i> , 2014, 223, 122-128.	4.4	80
43	Biocatalytic designs for the conversion of renewable glycerol into glycerol carbonate as a value-added product. <i>Open Chemistry</i> , 2014, 12, 1262-1270.	1.9	7
44	Novel ruthenium-terpyridyl complex for direct oxidation of amines to nitriles. <i>Catalysis Science and Technology</i> , 2013, 3, 2646.	4.1	25
45	Heterogeneous Catalysis for Biodiesel Production. , 2013, , 93-136.		8
46	Ru-based magnetic nanoparticles (MNP) for succinic acid synthesis from levulinic acid. <i>Green Chemistry</i> , 2013, 15, 3077.	9.0	85
47	Chiral supported ionic liquid phase (CSILP) catalysts for greener asymmetric hydrogenation processes. <i>Catalysis Today</i> , 2013, 200, 63-73.	4.4	21
48	Strategy of cross-linked enzyme aggregates onto magnetic particles adapted to the green design of biocatalytic synthesis of glycerol carbonate. <i>RSC Advances</i> , 2013, 3, 4052.	3.6	48
49	Postsynthetic Modification of a Metal-Organic Framework (MOF) Structure for Enantioselective Catalytic Epoxidation. <i>ChemPlusChem</i> , 2013, 78, 443-450.	2.8	22
50	Direct Synthesis of Sorbitol and Glycerol from Cellulose over Ionic Ru/Magnetite Nanoparticles in the Absence of External Hydrogen. <i>ChemSusChem</i> , 2013, 6, 2090-2094.	6.8	20
51	Replacing benzyl chloride with benzyl alcohol in heterogeneous catalytic benzylation of aromatic compounds. <i>Pure and Applied Chemistry</i> , 2012, 84, 427-437.	1.9	10
52	Heterogeneous amination of bromobenzene over titania-supported gold catalysts. <i>Journal of Catalysis</i> , 2012, 296, 43-54.	6.2	15
53	Catalytic hydroprocessing of lignin under thermal and ultrasound conditions. <i>Catalysis Today</i> , 2012, 196, 3-10.	4.4	28
54	Sn-Doped Hydroxylated MgF ₂ Catalysts for the Fast and Selective Saccharification of Cellulose to Glucose. <i>ChemSusChem</i> , 2012, 5, 1708-1711.	6.8	23

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55	Efficient bio-conversion of glycerol to glycerol carbonate catalyzed by lipase extracted from <i>Aspergillus niger</i> . <i>Green Chemistry</i> , 2012, 14, 478.	9.0	74
56	One-Pot Hydroacetylation of Menadione (Vitamin K ₃) to Menadiol Diacetate (Vitamin Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.5	12
57	Bifunctional Nanoscopic Catalysts for the One-Pot Synthesis of (±)-Menthol from Citral. <i>Topics in Catalysis</i> , 2012, 55, 680-687.	2.8	25
58	Efficient Sc triflate mesoporous-based catalysts for the synthesis of 4,4'-methyleneedianiline from aniline and 4-aminobenzylalcohol. <i>Journal of Catalysis</i> , 2012, 287, 76-85.	6.2	9
59	Unusual Behavior of a Novel Heterogeneous Chiral Dimer Cr(III)-Salen Complex in the Epoxidation/Epoxyde Ring-Opening Reaction of trans-Methylcinnamate Ester. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1112-1122.	3.1	13
60	Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 260-267.	20.2	52
61	Tailor-Made MgF ₂ -Based Catalysts by Sol-Gel Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4773-4794.	2.0	74
62	Transesterification of vegetable oils over CaO catalysts. <i>Catalysis Today</i> , 2011, 167, 64-70.	4.4	103
63	Friedel-Crafts alkylations on nanoscopic inorganic fluorides. <i>Applied Catalysis A: General</i> , 2011, 391, 169-174.	4.3	29
64	Benzylation of benzene with benzyl alcohol on zeolite catalysts. <i>Applied Catalysis A: General</i> , 2011, 393, 206-214.	4.3	37
65	Synthesis of Vitamin K ₁ and K ₁ -Chromanol by Friedel-Crafts Alkylation in Heterogeneous Catalysis. <i>ChemCatChem</i> , 2010, 2, 92-97.	3.7	34
66	Mesoporous Tin-Triflate Based Catalysts for Transesterification of Sunflower Oil. <i>Topics in Catalysis</i> , 2010, 53, 763-772.	2.8	6
67	One-Pot Synthesis of Menthol Catalyzed by a Highly Diastereoselective Au/MgF ₂ Catalyst. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8134-8138.	13.8	50
68	Synthesis, characterization and catalytic behavior of AlTf/UVM-7 as new green catalysts for the glycols etherification reactions. <i>Applied Catalysis A: General</i> , 2010, 372, 58-66.	4.3	7
69	Sol-gel prepared nanoscopic metal fluorides - a new class of tunable acid-base catalysts. <i>Catalysis Today</i> , 2010, 152, 2-10.	4.4	46
70	AlTf-UVM-7 Highly active catalysts for the synthesis of long chain symmetrical ethers and non-ionic surfactant structures. <i>Chemical Engineering Journal</i> , 2010, 161, 363-370.	12.7	7
71	Synthesis, characterization and catalytic behavior of SnTf/MCM-41 and SnTf/UVM-7 as new green catalysts for etherification reactions. <i>Journal of Materials Science</i> , 2009, 44, 6693-6700.	3.7	12
72	Metal Triflates Incorporated in Mesoporous Catalysts for Green Synthesis of Fine Chemicals. <i>Topics in Catalysis</i> , 2009, 52, 571-578.	2.8	8

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73	Heterogeneous Catalytic Transformation of Citronellal to Menthol in a Single Step on Ir-Beta Zeolite Catalysts. Topics in Catalysis, 2009, 52, 1292-1300.	2.8	55
74	Cyclisation of citronellal over heterogeneous inorganic fluorides highly chemo- and diastereoselective catalysts for (R)-isopulegol. Chemical Communications, 2009, , 460-462.	4.1	44
75	Novel Sol-Gel Synthesis of Acidic MgF ₂ (OH) Materials. Chemistry - A European Journal, 2008, 14, 11488-11499.	3.3	98
76	Catalytic Performance of Nanoscopic, Aluminium Trifluoride-Based Catalysts in the Synthesis of (all-R)-Tocopherol. Advanced Synthesis and Catalysis, 2008, 350, 2517-2524.	4.3	45
77	Acylation of sulfonamines using silica grafted 1-butyl-3-(3-triethoxysilylpropyl)-4,5-dihydroimidazolium ionic liquids as catalysts. Catalysis Today, 2008, 131, 98-103.	4.4	6
78	Comparative behavior of various lipases in benign water and ionic liquids solvents. Journal of Molecular Catalysis A, 2008, 279, 223-229.	4.8	13
79	New heterogeneous catalysts for greener routes in the synthesis of fine chemicals. Journal of Catalysis, 2007, 251, 388-399.	6.2	22
80	Metal-triflate ionic liquid systems immobilized onto mesoporous MS41 materials as new and efficient catalysts for N-acylation. Journal of Catalysis, 2007, 249, 359-369.	6.2	41
81	Efficient and Green Access to Functionalized and Highly Constrained Heteropolycyclic Derivatives via a Microwave-Accelerated Diels-Alder Cycloaddition and Heterogeneous Hydrogenation Sequence. Synlett, 2006, 2006, 1075-1079.	1.8	2
82	Investigation of acidic properties of Ir-*BEA zeolites by Py-, DTBP-, and Qu-FTIR. Studies in Surface Science and Catalysis, 2005, 158, 909-916.	1.5	2
83	Transformation of 5-hydroxymethylene-5H-6,7-dihydrodibenzo[a,c]cyclohepten-6-one over Ru-containing BEA zeolites. Journal of Molecular Catalysis A, 2004, 220, 257-265.	4.8	1
84	Ir-Beta zeolite as a heterogeneous catalyst for the one-pot transformation of citronellal to menthol. Chemical Communications, 2004, , 1292-1293.	4.1	49
85	Hydrogenation of prostaglandin unsaturated ketones over Ru-containing *BEA zeolites. Studies in Surface Science and Catalysis, 2004, , 2696-2702.	1.5	2
86	Chemoselective Reduction of Complex, Unsaturated Ketones to Allylic Alcohols over Ir-Metal Particles on Zeolites. Angewandte Chemie - International Edition, 2003, 42, 5333-5336.	13.8	61
87	Reduction of Prostaglandin Unsaturated Ketones to Secondary Allylic Alcohols by Hydrogen Transfer over Mesoporous-Supported PtSn Catalysts. Journal of Catalysis, 2002, 206, 218-229.	6.2	32
88	Chemoselective reduction of prostaglandin intermediates by liquid-phase hydrogen transfer on Pt-Sn/MCM-41 catalysts. Microporous and Mesoporous Materials, 2001, 44-45, 477-482.	4.4	3
89	Diastereoselective hydrogenation of a prostaglandinic intermediate over chirally modified Pt/Al ₂ O ₃ . Catalysis Today, 2000, 60, 185-192.	4.4	2
90	Preparation and characterization of sulfated zirconia catalysts obtained via various procedures. Applied Catalysis A: General, 1999, 176, 27-43.	4.3	69

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91	Transformation of C6 hydrocarbons over sulfated zirconia catalysts. Applied Catalysis A: General, 1999, 176, 45-62.	4.3	24
92	Stereocontrolled hydrogenation of prostaglandin intermediates over Ru-MCM-41 catalysts. Journal of Molecular Catalysis A, 1999, 146, 247-256.	4.8	16
93	Reducibility of ruthenium in relation with zeolite structure. Applied Surface Science, 1999, 141, 164-176.	6.1	43
94	Low metal loading Ru-MCM-41 stereocontrolled hydrogenation of prostaglandin intermediates. Chemical Communications, 1999, , 2175-2176.	4.1	14
95	Title is missing!. Catalysis Letters, 1998, 52, 231-238.	2.6	5
96	Reaction of Hexane, Cyclohexane, and Methylcyclopentane over Gallium-, Indium-, and Thallium-Promoted Sulfated Zirconia Catalysts. Journal of Catalysis, 1998, 180, 66-84.	6.2	35
97	Co-Nb2O5/SiO2 sol-gel catalysts: preparation implications on the texture and acidity of the support and dimension of the metal particle. Studies in Surface Science and Catalysis, 1998, 118, 691-698.	1.5	1
98	Diastereoselective Hydrogenation of some Prostaglandins Intermediates and Compounds over MCM-41 Supported Ru. Studies in Surface Science and Catalysis, 1998, 117, 501-508.	1.5	12
99	Diastereoselective hydrogenation of a prostaglandin intermediate over ru supported on different molecular sieves. Studies in Surface Science and Catalysis, 1997, , 207-214.	1.5	10
100	Spillover effects induced by rare-earth metals on Pd/Al2O3 in <i>n</i> -Arylbenzenes hydrogenation. Studies in Surface Science and Catalysis, 1997, , 161-170.	1.5	1
101	Modified ruthenium exchanged zeolites for enantioselective hydrogenation. Studies in Surface Science and Catalysis, 1995, 91, 561-570.	1.5	4