Mihaela Florea

List of Publications by Year
in descending order

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114 papers	2,714 citations	201674 27 h-index	214800 47 g-index
118 all docs	118 docs citations	118 times ranked	3722 citing authors

#	Article	IF	Citations
1	Graphenes in the absence of metals as carbocatalysts for selective acetylene hydrogenation and alkene hydrogenation. Nature Communications, 2014, 5, 5291.	12.8	208
2	Ceria-based oxides as supports for LaCoO3 perovskite; catalysts for total oxidation of VOC. Applied Catalysis B: Environmental, 2007, 70, 400-405.	20.2	149
3	Supported perovskites for total oxidation of toluene. Applied Catalysis B: Environmental, 2005, 60, 33-39.	20.2	115
4	Selective oxidation of 5-hydroxymethyl furfural over non-precious metal heterogeneous catalysts. Applied Catalysis B: Environmental, 2016, 180, 751-757.	20.2	112
5	Transesterification of vegetable oils on basic large mesoporous alumina supported alkaline fluoridesâ€"Evidences of the nature of the active site and catalytic performances. Journal of Catalysis, 2009, 263, 56-66.	6.2	106
6	Total oxidation of toluene on ferrite-type catalysts. Catalysis Today, 2009, 141, 361-366.	4.4	88
7	Plasma-assisted catalysis total oxidation of trichloroethylene over gold nano-particles embedded in SBA-15 catalysts. Applied Catalysis B: Environmental, 2007, 76, 275-281.	20.2	70
8	Oxidation of 5-hydroxymethyl furfural to 2,5-diformylfuran in aqueous media over heterogeneous manganese based catalysts. Catalysis Today, 2016, 278, 66-73.	4.4	63
9	Graphene from Alginate Pyrolysis as a Metalâ€Free Catalyst for Hydrogenation of Nitro Compounds. ChemSusChem, 2016, 9, 1565-1569.	6.8	62
10	Applications of MAX phases and MXenes as catalysts. Journal of Materials Chemistry A, 2021, 9, 19589-19612.	10.3	59
11	The impact of the â€œmemory effectâ€•on the catalytic activity of Mg/Al; Mg,Zn/Al; Mg/Al,Ga hydrotalcite-like compounds used as catalysts for cycloxene epoxidation. Applied Catalysis A: General, 2008, 341, 50-57.	4.3	56
12	Recent progress in electrocatalysts and electrodes for portable fuel cells. Journal of Materials Chemistry A, 2021, 9, 17065-17128.	10.3	55
13	Next frontiers in cleaner synthesis: 3D printed graphene-supported CeZrLa mixed-oxide nanocatalyst for CO2 utilisation and direct propylene carbonate production. Journal of Cleaner Production, 2019, 214, 606-614.	9.3	54
14	Supported Co-based perovskites as catalysts for total oxidation of methane. Applied Catalysis A: General, 2005, 280, 255-265.	4.3	51
15	Toward a Unified Description of Luminescenceâ€"Local Structure Correlation in Ln Doped CeO₂ Nanoparticles: Roles of Ln Ionic Radius, Ln Concentration, and Oxygen Vacancies. Journal of Physical Chemistry C, 2015, 119, 16303-16313.	3.1	50
16	Dry reforming of methane on ceria prepared by modified precipitation route. Applied Catalysis A: General, 2015, 494, 29-40.	4.3	47
17	Deoxygenation of oleic acid: Influence of the synthesis route of Pd/mesoporous carbon nanocatalysts onto their activity and selectivity. Applied Catalysis A: General, 2015, 504, 81-91.	4.3	46
18	Evidence for the participation of lattice nitrogen from vanadium aluminum oxynitrides in propane ammoxidation. Journal of Catalysis, 2005, 232, 152-160.	6.2	42

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19	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
20	Synthesis of Terephthalic Acid by pâ€Cymene Oxidation using Oxygen: Toward a More Sustainable Production of Bioâ€Polyethylene Terephthalate. ChemSusChem, 2016, 9, 3102-3112.	6.8	40
21	Synthesis of ceria nanopowders by microwave-assisted hydrothermal method for dry reforming of methane. International Journal of Hydrogen Energy, 2016, 41, 2512-2525.	7.1	39
22	Benzylation of benzene with benzyl alcohol on zeolite catalysts. Applied Catalysis A: General, 2011, 393, 206-214.	4.3	37
23	New Class of Catalysts for the Propane Ammoxidation Process Based on Vanadium Aluminum Oxynitrides. Catalysis Letters, 2003, 87, 63-66.	2.6	29
24	Influence of the co-precipitation pH on the physico-chemical and catalytic properties of vanadium aluminum oxide catalyst. Applied Catalysis A: General, 2004, 263, 163-170.	4.3	29
25	Local environment of vanadium in V/Al/O-mixed oxide catalyst for propane ammoxidation: Characterization by in situ valence-to-core X-ray emission spectroscopy and X-ray absorption spectroscopy. Journal of Catalysis, 2009, 268, 156-164.	6.2	29
26	Epoxidation of cyclohexene with O2 and isobutyraldehyde catalysed by cobalt modified hydrotalcites. Journal of Molecular Catalysis A, 2010, 315, 178-186.	4.8	29
27	Effect of LaCoO3 perovskite deposition on ceria-based supports on total oxidation of VOC. Catalysis Today, 2006, 112, 169-173.	4.4	28
28	Heavily impregnated ceria nanoparticles with europium oxide: spectroscopic evidences for homogenous solid solutions and intrinsic structure of Eu3+-oxygen environments. Journal of Materials Science, 2014, 49, 2117-2126.	3.7	28
29	Mesostructured vanadiaâ€“alumina catalysts for the synthesis of vitamin K3. Catalysis Today, 2015, 254, 29-35.	4.4	27
30	Sensors based on mesoporous SnO 2 -CuWO 4 with high selective sensitivity to H 2 S at low operating temperature. Journal of Hazardous Materials, 2017, 331, 150-160.	12.4	27
31	Highly Efficient Ultralow Pd Loading Supported on MAX Phases for Chemoselective Hydrogenation. ACS Catalysis, 2020, 10, 5899-5908.	11.2	27
32	Advances in luminescence of lanthanide doped Y_2O_3: case of S_6 sites. Optical Materials Express, 2016, 6, 1635.	3.0	26
33	Down-/Up-Conversion Emission Enhancement by Li Addition: Improved Crystallization or Local Structure Distortion?. Journal of Physical Chemistry C, 2017, 121, 14274-14284.	3.1	26
34	Bimodal mesoporous NiO/CeO2-Î´-YSZ with enhanced carbon tolerance in catalytic partial oxidation of methaneâ€”Potential IT-SOFCs anode. Applied Catalysis B: Environmental, 2019, 241, 393-406.	20.2	26
35	An adamantane-based COF: stability, adsorption capability, and behaviour as a catalyst and support for Pd and Au for the hydrogenation of nitrostyrene. Catalysis Science and Technology, 2016, 6, 8344-8354.	4.1	24
36	Structural Details of BaTiO3 Nano-Powders Deduced from the Anisotropic XRD Peak Broadening. Nanomaterials, 2021, 11, 1121.	4.1	24

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37	Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids. Green Chemistry, 2010, 12, 2145.	9.0	23
38	Hydrogen production from glycerol steam reforming over molybdenaâ€“alumina catalysts. Catalysis Communications, 2016, 77, 83-88.	3.3	23
39	Vanadium aluminium oxynitride catalysts for propane ammoxidation reaction. Applied Catalysis A: General, 2005, 286, 1-10.	4.3	22
40	Postsynthetic Modification of a Metalâ€“Organic Framework (MOF) Structure for Enantioselective Catalytic Epoxidation. ChemPlusChem, 2013, 78, 443-450.	2.8	22
41	Near infrared emission properties of Er doped cubic sesquioxides in the second/third biological windows. Scientific Reports, 2018, 8, 18033.	3.3	22
42	Crown-ether functionalized graphene oxide for metal ions sequestration. Materials Research Bulletin, 2020, 122, 110643.	5.2	22
43	Influence of Gd and Pr doping on the properties of ceria: texture, structure, redox behaviour and reactivity in CH₄/H₂O reactions in the presence of H₂S. Catalysis Science and Technology, 2018, 8, 1333-1348.	4.1	21
44	Evidence of Aâ€“B site cooperation in the EuFeO3 perovskite from 151Eu and 57Fe MÃ¶ssbauer spectroscopy, EXAFS, and toluene catalytic oxidation. Journal of Catalysis, 2014, 316, 130-140.	6.2	20
45	In situ structural changes during toluene complete oxidation on supported EuCoO3 monitored with 151Eu MÃ¶ssbauer spectroscopy. Catalysis Today, 2006, 117, 329-336.	4.4	19
46	Up-conversion luminescence of Er(Yb)-CeO 2 : Status and new results. Journal of Alloys and Compounds, 2017, 711, 627-636.	5.5	19
47	Reticulated Mesoporous TiO₂ Scaffold, Fabricated by Spray Coating, for Largeâ€Area Perovskite Solar Cells. Energy Technology, 2020, 8, 1900922.	3.8	19
48	Influence of the reaction conditions on the activity properties of vanadiumâ€“aluminium oxynitride propane ammoxidation catalyst. Applied Catalysis A: General, 2003, 255, 289-300.	4.3	18
49	Doped ceria prepared by precipitation route for steam reforming of methane. Catalysis Today, 2018, 306, 166-171.	4.4	18
50	Undoped SnO₂ as a Support for Ni Species to Boost Oxygen Generation through Alkaline Water Electrolysis. ACS Applied Materials & Interfaces, 2020, 12, 18407-18420.	8.0	17
51	Propane ammoxidation catalyst based on vanadium-aluminum oxynitride. AICHE Journal, 2003, 49, 2228-2231.	3.6	16
52	Highly -sensitive near infrared luminescent nanothermometers based on binary mixture. Journal of Alloys and Compounds, 2019, 785, 250-259.	5.5	16
53	A Robust Metalâ€“Organic Framework Constructed from Alkoxo-Bridged Binuclear Nodes and Hexamethylenetetramine Spacers: Crystal Structure and Sorption Studies. Inorganic Chemistry, 2012, 51, 7954-7956.	4.0	15
54	Pure and almost pure NIR emission of Tm and Tm,Ybâ€“CeO₂under UV, X-ray and NIR up-conversion excitation: key roles of level selective antenna sensitization and charge-compensation. Physical Chemistry Chemical Physics, 2015, 17, 30988-30992.	2.8	15

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55	Defect induced tunable near infrared emission of Erâ€“CeO₂ by heterovalent co-dopants. Physical Chemistry Chemical Physics, 2016, 18, 18268-18277.	2.8	15
56	Low metal loading Ru-MCM-41 stereocontrolled hydrogenation of prostaglandin intermediates. Chemical Communications, 1999, , 2175-2176.	4.1	14
57	Ni-doped (CeO2â^Î´)â€“YSZ mesoarchitectured with nanocrystalline framework: the effect of thermal treatment on structure, surface chemistry and catalytic properties in the partial oxidation of methane (CPOM). Journal of Nanoparticle Research, 2015, 17, 1.	1.9	14
58	Carbon-Coated SiO2 Composites as Promising Anode Material for Li-Ion Batteries. Molecules, 2021, 26, 4531.	3.8	14
59	Acylation of different amino derivatives with fatty acids on UL-MFI-type catalysts. Pure and Applied Chemistry, 2007, 79, 2059-2068.	1.9	13
60	NIR to Vis-NIR up-conversion and X-ray excited emission of Er doped high Z BiOCl. Optical Materials Express, 2015, 5, 951.	3.0	13
61	The hysteresis-free behavior of perovskite solar cells from the perspective of the measurement conditions. Journal of Materials Chemistry C, 2019, 7, 5267-5274.	5.5	13
62	Potassium-containing triple-cation mixed-halide perovskite materials: Toward efficient and stable solar cells. Journal of Alloys and Compounds, 2021, 858, 158335.	5.5	13
63	Lanthanideâ€“lanthanide and lanthanideâ€“defect interactions in co-doped ceria revealed by luminescence spectroscopy. Journal of Alloys and Compounds, 2014, 616, 535-541.	5.5	12
64	Effect of nitridation on the electronic environment of vanadium in VAlO(N) powder catalysts, used for the ammoxidation of propane. Catalysis Today, 2006, 118, 344-352.	4.4	11
65	Degenerated TiO₂ Semiconductor Modified with Ni and Zn as Efficient Photocatalysts for the Water Splitting Reaction. ChemCatChem, 2020, 12, 4642-4651.	3.7	11
66	VAlPOs as Efficient Catalysts for Glycerol Conversion to Methanol. Catalysts, 2020, 10, 728.	3.5	10
67	Understanding the role of nitridation in butan-1-ol and butan-2-ol dehydration mechanisms over oxynitrides. Catalysis Today, 2006, 116, 216-225.	4.4	9
68	Time-gated down-/up-conversion emission of Hoâ€“CeO 2 and Ho, Ybâ€“CeO 2 nanoparticles. Journal of Luminescence, 2016, 179, 265-271.	3.1	9
69	Functional layered double hydroxides and their catalytic activity for 1,4-addition of n -octanol to 2-propenonitrile. Applied Clay Science, 2017, 146, 411-422.	5.2	9
70	Selective catalytic oxidation reaction of p -xylene on manganeseâ€“iron mixed oxide materials. Comptes Rendus Chimie, 2018, 21, 354-361.	0.5	9
71	Imaging dopant distribution across complete phase transformation by TEM and upconversion emission. Nanoscale, 2019, 11, 16743-16754.	5.6	9
72	Behavior of Molybdenumâ€“Vanadium Mixed Oxides in Selective Oxidation and Disproportionation of Toluene. Materials, 2019, 12, 748.	2.9	9

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73	Comparative investigation of structural, EPR, optical and photoluminescence properties of nanostructured LaPO4:Ce/RE/Me and LaPO4:Yb/Er phosphors prepared by co-precipitation method. Journal of Solid State Chemistry, 2021, 301, 122310.	2.9	9
74	Increasing Permittivity and Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO3 Nanofillers. Nanomaterials, 2022, 12, 934.	4.1	9
75	Ru-MCM-41 catalysts for diastereoselective hydrogenation. Microporous and Mesoporous Materials, 2001, 44-45, 483-488.	4.4	8
76	Effect of Mo/Ce ratio in Moâ€“Ceâ€“Al catalysts on the hydrogen production by steam reforming of glycerol. Catalysis Science and Technology, 2016, 6, 7902-7912.	4.1	8
77	Heavy doping of ceria by wet impregnation: a viable alternative to bulk doping approaches. Nanoscale, 2018, 10, 18043-18054.	5.6	8
78	Enhancing stability of hybrid perovskite solar cells by imidazolium incorporation. Solar Energy Materials and Solar Cells, 2021, 227, 111096.	6.2	8
79	High surface area Moâ€“Vâ€“Teâ€“Nbâ€“O catalysts: Preparation, characterization and catalytic behaviour in ammoxidation of propane. Catalysis Today, 2006, 112, 139-142.	4.4	7
80	Exploring porous nanosilica-TEMPO as heterogeneous aerobic oxidation catalyst: the influence of supported gold clusters. Journal of Porous Materials, 2016, 23, 247-254.	2.6	7
81	Structural and Optical Investigations of Ce3+/Mn2+-Doped LaPO4 Phosphors. Journal of Electronic Materials, 2021, 50, 2137-2147.	2.2	7
82	Design of electrocatalysts with reduced Pt content supported on mesoporous NiWO4 and NiWO4-graphene nanoplatelets composite for oxygen reduction and hydrogen oxidation in acidic medium. International Journal of Hydrogen Energy, 2023, 48, 6317-6335.	7.1	7
83	WO_xâ€CeO₂ and WO_xâ€Nb₂O₅ catalysts deactivation during hexane isomerization. AIChE Journal, 2008, 54, 1303-1312.	3.6	6
84	Structural changes during toluene complete oxidation on supported EuFeO3 monitored by in situ 151Eu and 57Fe MÃ¶ssbauer spectroscopy. Catalysis Today, 2013, 208, 56-59.	4.4	6
85	Thermal behavior of several stable hydrazyl free radicals and of their parent hydrazines. Journal of Thermal Analysis and Calorimetry, 2014, 116, 259-263.	3.6	6
86	Coordination polymers and a dinuclear complex constructed from zinc(II) ions and fluorescein: iodine adsorption and optical properties. Journal of Coordination Chemistry, 2019, 72, 1222-1237.	2.2	6
87	Exploring the effect of aliovalent substitution of Pb²⁺ by Eu³⁺ on structural, morphological and optical properties of CH₃NH₃PbI₃ perovskite films. Physica Scripta, 2020, 95, 044003.	2.5	6
88	Influence of doping the inorganic cation with Eu or Sb on the properties of perovskite films. Physica Scripta, 2020, 95, 075707.	2.5	6
89	Highly Active Transition Metal-Promoted CuCeMgAlO Mixed Oxide Catalysts Obtained from Multicationic LDH Precursors for the Total Oxidation of Methane. Catalysts, 2020, 10, 613.	3.5	6
90	Comment on â€œHigh multi-photon visible upconversion emissions of Er3+ singly doped BiOCl microcrystals: A photon avalanche of Er3+ induced by 980â€‰nm excitationâ€•[Appl. Phys. Lett. 103, 231104 (2013)]. Applied Physics Letters, 2014, 104, .	3.3	5

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91	Potential application of Ni and Co stabilized zirconia as oxygen reduction reaction catalyst. Catalysis Communications, 2017, 93, 37-42.	3.3	5
92	Bulk Versus Surface Modification of Alumina with Mn and Ce Based Oxides for CH4 Catalytic Combustion. Materials, 2019, 12, 1771.	2.9	5
93	The Role of Acidity in Terephthalic Acid Synthesis from Renewable Carbon Source. ChemCatChem, 2020, 12, 6248-6258.	3.7	5
94	CeO2:Mn3O4 Catalytic Micro-Converters Tuned for CH4 Detection Based on Catalytic Combustion under Real Operating Conditions. Materials, 2020, 13, 2196.	2.9	5
95	CuWO4 with CuO and Cu(OH)2 Native Surface Layers for H2S Detection under in-Field Conditions. Materials, 2021, 14, 465.	2.9	5
96	Investigation of Opto-Electronic Properties and Stability of Mixed-Cation Mixed-Halide Perovskite Materials with Machine-Learning Implementation. Energies, 2021, 14, 5431.	3.1	5
97	Structural properties and near-infrared light from Ce3+/Nd3+-co-doped LaPO4 nanophosphors for solar cell applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 4197-4210.	2.2	5
98	The Cu- and Zn-complex-catalyzed methanolysis of the chemical warfare nerve agents soman, sarin, and VX. Comptes Rendus Chimie, 2018, 21, 339-345.	0.5	4
99	Alternative valorization of red mud waste as functional materials with catalytic activity for sulfide oxidation in wastewater. International Journal of Environmental Science and Technology, 2018, 15, 895-908.	3.5	4
100	La_{0.75}Sr_{0.25}XO₃ (X = Fe, Mn or Cr) with coking tolerance for CH₄/H₂O reaction: effect of H₂S on catalytic performance. Catalysis Science and Technology, 2019, 9, 2351-2366.	4.1	4
101	Green Epoxidation of Olefins with ZnxAl/MgxAl-LDH Compounds: Influence of the Chemical Composition. Catalysts, 2022, 12, 145.	3.5	4
102	New ways to use the red mud waste as raw material for inorganic- organic hybrid hydrogels. International Journal of Mineral Processing, 2017, 169, 111-118.	2.6	2
103	Synthesis and Characterization of Graphite Oxide Derived TiO2-Carbon Composites as Potential Electrocatalyst Supports. Topics in Catalysis, 0, , 1.	2.8	2
104	A green way for pyruvic acid synthesis from biomass-derived L-malic acid on tetrahedral versus octahedral cobalt sites/hematite. Biomass Conversion and Biorefinery, 2024, 14, 813-824.	4.6	2
105	Electrocatalytic Properties of Mixed-Oxide-Containing Composite-Supported Platinum for Polymer Electrolyte Membrane (PEM) Fuel Cells. Materials, 2022, 15, 3671.	2.9	2
106	Epoxidation of cyclohexene on silicalite embedded BiOx clusters. Studies in Surface Science and Catalysis, 2004, 154, 2647-2654.	1.5	1
107	INFLUENCE OF THE PREPARATION METHOD ON THE AMPICILLIN INCORPORATION IN HYDROTALCITE-LIKE COMPOUNDS. , 2008, , .		1
108	Time delay and excitation mode induced tunable red/near-infrared to green emission ratio of Er doped BiOCl. Journal Physics D: Applied Physics, 2015, 48, 355501.	2.8	1

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109	Cross-coupling of p-xylene to 2,2â€²,5,5â€²-tetramethyl 1,1â€²-biphenyl on supported vanadia catalysts. Applied Catalysis A: General, 2016, 514, 71-82.	4.3	1
110	Methane Combustion Using Pd Deposited on CeOx-MnOx/La-Al2O3 Pellistors. Materials, 2020, 13, 4888.	2.9	1
111	Preparation of Mo-V-Te-Nb mixed oxides using the template route. Studies in Surface Science and Catalysis, 2006, , 769-776.	1.5	0
112	Self-assembled (Ni/Cu, Ti)-YSZ with potential applications for IT-SOFCs: Catalytic and electrochemical assessment. Journal of Alloys and Compounds, 2017, 690, 873-883.	5.5	0
113	Thermal behaviour of sym-octahydroacridines and their corresponding N(10)-oxides. Journal of Thermal Analysis and Calorimetry, 2018, 131, 117-125.	3.6	0
114	NiO / Sr doped Ce0.85Pr0.10 Er0.05O2-Î´ mesoarchitectured catalyst for partial oxidation of CH4 and anode fueled by H2. Microporous and Mesoporous Materials, 2021, 323, 111171.	4.4	0