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	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
2	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
3	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
4	Green Epoxidation of Olefins with ZnxAl/MgxAl-LDH Compounds: Influence of the Chemical Composition. Catalysts, 2022, 12, 145.	3.5	4
5	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
6	Electrocatalytic Properties of Mixed-Oxide-Containing Composite-Supported Platinum for Polymer Electrolyte Membrane (PEM) Fuel Cells. Materials, 2022, 15, 3671.	2.9	2
7	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
8	CuWO4 with CuO and Cu(OH)2 Native Surface Layers for H2S Detection under in-Field Conditions. Materials, 2021, 14, 465.	2.9	5
9	Applications of MAX phases and MXenes as catalysts. Journal of Materials Chemistry A, 2021, 9, 19589-19612.	10.3	59
10	Recent progress in electrocatalysts and electrodes for portable fuel cells. Journal of Materials Chemistry A, 2021, 9, 17065-17128.	10.3	55
11	Structural Details of BaTiO3 Nano-Powders Deduced from the Anisotropic XRD Peak Broadening. Nanomaterials, 2021, 11, 1121.	4.1	24
12	Carbon-Coated SiO2 Composites as Promising Anode Material for Li-Ion Batteries. Molecules, 2021, 26, 4531.	3.8	14
13	Enhancing stability of hybrid perovskite solar cells by imidazolium incorporation. Solar Energy Materials and Solar Cells, 2021, 227, 111096.	6.2	8
14	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
15	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
16	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
17	Structural and Optical Investigations of Ce3+/Mn2+-Doped LaPO4 Phosphors. Journal of Electronic Materials, 2021, 50, 2137-2147.	2.2	7
18	Crown-ether functionalized graphene oxide for metal ions sequestration. Materials Research Bulletin, 2020, 122, 110643.	5.2	22

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19	Reticulated Mesoporous TiO₂ Scaffold, Fabricated by Spray Coating, for Largeâ€Area Perovskite Solar Cells. Energy Technology, 2020, 8, 1900922.	3.8	19
20	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
21	The Role of Acidity in Terephthalic Acid Synthesis from Renewable Carbon Source. ChemCatChem, 2020, 12, 6248-6258.	3.7	5
22	VAlPOs as Efficient Catalysts for Glycerol Conversion to Methanol. Catalysts, 2020, 10, 728.	3.5	10
23	Methane Combustion Using Pd Deposited on CeOx-MnOx/La-Al2O3 Pellistors. Materials, 2020, 13, 4888.	2.9	1
24	Influence of doping the inorganic cation with Eu or Sb on the properties of perovskite films. Physica Scripta, 2020, 95, 075707.	2.5	6
25	CeO2:Mn3O4 Catalytic Micro-Converters Tuned for CH4 Detection Based on Catalytic Combustion under Real Operating Conditions. Materials, 2020, 13, 2196.	2.9	5
26	Degenerated TiO₂ Semiconductor Modified with Ni and Zn as Efficient Photocatalysts for the Water Splitting Reaction. ChemCatChem, 2020, 12, 4642-4651.	3.7	11
27	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
28	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
29	Highly Efficient Ultralow Pd Loading Supported on MAX Phases for Chemoselective Hydrogenation. ACS Catalysis, 2020, 10, 5899-5908.	11.2	27
30	Imaging dopant distribution across complete phase transformation by TEM and upconversion emission. Nanoscale, 2019, 11, 16743-16754.	5.6	9
31	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
32	Bulk Versus Surface Modification of Alumina with Mn and Ce Based Oxides for CH4 Catalytic Combustion. Materials, 2019, 12, 1771.	2.9	5
33	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
34	Behavior of Molybdenumâ€“Vanadium Mixed Oxides in Selective Oxidation and Disproportionation of Toluene. Materials, 2019, 12, 748.	2.9	9
35	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
36	Highly -sensitive near infrared luminescent nanothermometers based on binary mixture. Journal of Alloys and Compounds, 2019, 785, 250-259.	5.5	16

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37	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
38	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
39	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
40	Doped ceria prepared by precipitation route for steam reforming of methane. Catalysis Today, 2018, 306, 166-171.	4.4	18
41	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
42	Thermal behaviour of sym-octahydroacridines and their corresponding N(10)-oxides. Journal of Thermal Analysis and Calorimetry, 2018, 131, 117-125.	3.6	0
43	Selective catalytic oxidation reaction of p -xylene on manganeseâ€“iron mixed oxide materials. Comptes Rendus Chimie, 2018, 21, 354-361.	0.5	9
44	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
45	Near infrared emission properties of Er doped cubic sesquioxides in the second/third biological windows. Scientific Reports, 2018, 8, 18033.	3.3	22
46	Heavy doping of ceria by wet impregnation: a viable alternative to bulk doping approaches. Nanoscale, 2018, 10, 18043-18054.	5.6	8
47	Potential application of Ni and Co stabilized zirconia as oxygen reduction reaction catalyst. Catalysis Communications, 2017, 93, 37-42.	3.3	5
48	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
49	Up-conversion luminescence of Er(Yb)-CeO 2 : Status and new results. Journal of Alloys and Compounds, 2017, 711, 627-636.	5.5	19
50	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
51	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
52	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
53	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
54	Graphene from Alginate Pyrolysis as a Metalâ€Free Catalyst for Hydrogenation of Nitro Compounds. ChemSusChem, 2016, 9, 1565-1569.	6.8	62

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55	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
56	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
57	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
58	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
59	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
60	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
61	Defect induced tunable near infrared emission of Erâ€“CeO₂ by heterovalent co-dopants. Physical Chemistry Chemical Physics, 2016, 18, 18268-18277.	2.8	15
62	Advances in luminescence of lanthanide doped Y_2O_3: case of S_6 sites. Optical Materials Express, 2016, 6, 1635.	3.0	26
63	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
64	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
65	Hydrogen production from glycerol steam reforming over molybdenaâ€“alumina catalysts. Catalysis Communications, 2016, 77, 83-88.	3.3	23
66	Selective oxidation of 5-hydroxymethyl furfural over non-precious metal heterogeneous catalysts. Applied Catalysis B: Environmental, 2016, 180, 751-757.	20.2	112
67	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
68	Dry reforming of methane on ceria prepared by modified precipitation route. Applied Catalysis A: General, 2015, 494, 29-40.	4.3	47
69	Mesostructured vanadiaâ€“alumina catalysts for the synthesis of vitamin K3. Catalysis Today, 2015, 254, 29-35.	4.4	27
70	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
71	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
72	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

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73	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
74	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
75	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
76	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
77	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
78	Graphenes in the absence of metals as carbocatalysts for selective acetylene hydrogenation and alkene hydrogenation. Nature Communications, 2014, 5, 5291.	12.8	208
79	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
80	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
81	Postsynthetic Modification of a Metalâ€“Organic Framework (MOF) Structure for Enantioselective Catalytic Epoxidation. ChemPlusChem, 2013, 78, 443-450.	2.8	22
82	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
83	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
84	Benzylation of benzene with benzyl alcohol on zeolite catalysts. Applied Catalysis A: General, 2011, 393, 206-214.	4.3	37
85	Epoxidation of cyclohexene with O2 and isobutyraldehyde catalysed by cobalt modified hydrotalcites. Journal of Molecular Catalysis A, 2010, 315, 178-186.	4.8	29
86	Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids. Green Chemistry, 2010, 12, 2145.	9.0	23
87	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
88	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
89	Total oxidation of toluene on ferrite-type catalysts. Catalysis Today, 2009, 141, 361-366.	4.4	88
90	WO_xâ€CeO₂ and WO_xâ€Nb₂O₅ catalysts deactivation during hexane isomerization. AICHE Journal, 2008, 54, 1303-1312.	3.6	6

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91	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
92	INFLUENCE OF THE PREPARATION METHOD ON THE AMPICILLIN INCORPORATION IN HYDROTALCITE-LIKE COMPOUNDS. , 2008, , .		1
93	Acylation of different amino derivatives with fatty acids on UL-MFI-type catalysts. Pure and Applied Chemistry, 2007, 79, 2059-2068.	1.9	13
94	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
95	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
96	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
97	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
98	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
99	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
100	Effect of LaCoO3 perovskite deposition on ceria-based supports on total oxidation of VOC. Catalysis Today, 2006, 112, 169-173.	4.4	28
101	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
102	Preparation of Mo-V-Te-Nb mixed oxides using the template route. Studies in Surface Science and Catalysis, 2006, , 769-776.	1.5	0
103	Supported Co-based perovskites as catalysts for total oxidation of methane. Applied Catalysis A: General, 2005, 280, 255-265.	4.3	51
104	Vanadium aluminium oxynitride catalysts for propane ammoxidation reaction. Applied Catalysis A: General, 2005, 286, 1-10.	4.3	22
105	Evidence for the participation of lattice nitrogen from vanadium aluminum oxynitrides in propane ammoxidation. Journal of Catalysis, 2005, 232, 152-160.	6.2	42
106	Supported perovskites for total oxidation of toluene. Applied Catalysis B: Environmental, 2005, 60, 33-39.	20.2	115
107	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
108	Epoxidation of cyclohexene on silicalite embedded BiOx clusters. Studies in Surface Science and Catalysis, 2004, 154, 2647-2654.	1.5	1

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109	New Class of Catalysts for the Propane Ammoxidation Process Based on Vanadium Aluminum Oxynitrides. Catalysis Letters, 2003, 87, 63-66.	2.6	29
110	Propane ammoxidation catalyst based on vanadium-aluminum oxynitride. AICHE Journal, 2003, 49, 2228-2231.	3.6	16
111	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
112	Ru-MCM-41 catalysts for diastereoselective hydrogenation. Microporous and Mesoporous Materials, 2001, 44-45, 483-488.	4.4	8
113	Low metal loading Ru-MCM-41 stereocontrolled hydrogenation of prostaglandin intermediates. Chemical Communications, 1999, , 2175-2176.	4.1	14
114	Synthesis and Characterization of Graphite Oxide Derived TiO2-Carbon Composites as Potential Electrocatalyst Supports. Topics in Catalysis, 0, , 1.	2.8	2