Consuelo Alvarez-Galvan

List of Publications by Year
in descending order

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51 papers	3,145 citations	201674 27 h-index	197818 49 g-index
55 all docs	55 docs citations	55 times ranked	4480 citing authors

#	Article	IF	Citations
1	The structural evolution, optical gap, and thermoelectric properties of the RbPb₂Br₅ layered halide, prepared by mechanochemistry. Journal of Materials Chemistry C, 2022, 10, 6857-6865.	5.5	4
2	Detailed Structural Features of the Perovskite-Related Halide RbPbI₃ for Solar Cell Applications. Inorganic Chemistry, 2022, 61, 5502-5511.	4.0	7
3	Highly efficient multi-metal catalysts for carbon dioxide reduction prepared from atomically sequenced metal organic frameworks. Nano Research, 2021, 14, 493-500.	10.4	12
4	M = Ir⁴⁺,Ta⁵⁺-Doped SrCo_{0.95}M_{0.05}O_{3-Î´} Perovskites: Promising Solid-Oxide Fuel-Cell Cathodes. ACS Applied Energy Materials, 2021, 4, 500-509.	5.1	7
5	Influence of the Reduction Temperature and the Nature of the Support on the Performance of Zirconia and Alumina-Supported Pt Catalysts for n-Dodecane Hydroisomerization. Catalysts, 2021, 11, 88.	3.5	12
6	Structural evolution, optical gap and thermoelectric properties of CH₃NH₃SnBr₃ hybrid perovskite, prepared by mechanochemistry. Materials Advances, 2021, 2, 3620-3628.	5.4	9
7	Magnetic Properties of Efficient Catalysts Based on Laâ€Doped Ceriaâ€Supported Nickel Nanoparticles for rWGS Reaction. Influence of Ni Loading. Advanced Sustainable Systems, 2021, 5, 2100029.	5.3	9
8	Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of Cs₂AgSbCl₆ Double Perovskite. Industrial & Engineering Chemistry Research, 2021, 60, 18918-18928.	3.7	26
9	Mechano-Chemical Synthesis, Structural Features and Optical Gap of Hybrid CH3NH3CdBr3 Perovskite. Materials, 2021, 14, 6039.	2.9	2
10	Crystal structure features of CH₃NH₃PbI_{3â^'x}Br_x hybrid perovskites prepared by ball milling: a route to more stable materials. CrystEngComm, 2020, 22, 767-775.	2.6	24
11	Crystal Structure Features of CsPbBr₃ Perovskite Prepared by Mechanochemical Synthesis. ACS Omega, 2020, 5, 5931-5938.	3.5	78
12	Enhanced stability in CH3NH3PbI3 hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. Scientific Reports, 2020, 10, 11228.	3.3	19
13	Transition Metal Phosphides for the Catalytic Hydrodeoxygenation of Waste Oils into Green Diesel. Catalysts, 2019, 9, 293.	3.5	63
14	Dynamic Disorder Restriction of Methylammonium (MA) Groups in Chlorideâ€Doped MAPbBr₃ Hybrid Perovskites: A Neutron Powder Diffraction Study. Chemistry - A European Journal, 2019, 25, 4496-4500.	3.3	9
15	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH₃NH₃Pb(Br_{1â€“x}Cl_x)₃ Perovskites. Crystal Growth and Design, 2019, 19, 918-924.	3.0	22
16	Metal phosphide catalysts for the hydrotreatment of non-edible vegetable oils. Catalysis Today, 2018, 302, 242-249.	4.4	42
17	Cermets Ni/(Ce0.9Ln0.1O1.95) (LnÂ=ÂGd, La, Nd and Sm) prepared by solution combustion method as catalysts for hydrogen production by partial oxidation of methane. International Journal of Hydrogen Energy, 2018, 43, 16834-16845.	7.1	7
18	Nickel ferrite supported on calcium-stabilized zirconia for solar hydrogen production by two-step thermochemical water splitting. Materials Today Energy, 2017, 6, 248-254.	4.7	10

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19	Elucidating the Methylammonium (MA) Conformation in MAPbBr₃ Perovskite with Application in Solar Cells. Inorganic Chemistry, 2017, 56, 14214-14219.	4.0	64
20	Structure and Reactivity of solâ€“gel V/SiO2 Catalysts for the Direct Conversion of Methane to Formaldehyde. Topics in Catalysis, 2017, 60, 1129-1139.	2.8	11
21	Renewable Syngas Production via Dry Reforming of Methane. Green Energy and Technology, 2013, , 45-66.	0.6	4
22	Hydrogen Production from Water Splitting Using Photo-Semiconductor Catalysts. , 2013, , 43-61.		12
23	Low-temperature conversion of phenol into CO, CO2 and H2 by steam reforming over La-containing supported Rh catalysts. Applied Catalysis B: Environmental, 2012, 117-118, 81-95.	20.2	62
24	Hydrogenolysis of anisole over mesoporous sulfided CoMoW/SBA-15(16) catalysts. Catalysis Today, 2011, 172, 103-110.	4.4	73
25	Catalysts for Hydrogen Production from Heavy Hydrocarbons. ChemCatChem, 2011, 3, 440-457.	3.7	58
26	Oxidative reforming of diesel fuel over LaCoO3 perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. Applied Catalysis B: Environmental, 2011, 105, 276-288.	20.2	93
27	Equilibrium and kinetics of adsorption of methylene blue on Tiâ€modified volcanic ashes. AICHE Journal, 2011, 57, 819-825.	3.6	12
28	Direct methane conversion routes to chemicals and fuels. Catalysis Today, 2011, 171, 15-23.	4.4	275
29	Surface reactivity of LaCoO3 and Ru/LaCoO3 towards CO, CO2 and C3H8: Effect of H2 and O2 pretreatments. Applied Catalysis B: Environmental, 2011, 102, 291-301.	20.2	28
30	Biogas as a source of renewable syngas production: advances and challenges. Biofuels, 2011, 2, 325-343.	2.4	32
31	A framework for visible-light water splitting. Energy and Environmental Science, 2010, 3, 1865.	30.8	181
32	Reforming of Diesel Fuel for Hydrogen Production over Catalysts Derived from LaCo1â^'x M x O3 (MÂ=ÂRu, Fe). Topics in Catalysis, 2009, 52, 1995-2000.	2.8	19
33	Influence of Zn concentration in the activity of Cd1â^'xZnxS solid solutions for water splitting under visible light. Catalysis Today, 2009, 143, 51-56.	4.4	107
34	Upgrading of bio-liquids on different mesoporous silica-supported CoMo catalysts. Applied Catalysis B: Environmental, 2009, 92, 154-167.	20.2	158
35	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. Applied Catalysis B: Environmental, 2009, 92, 445-453.	20.2	54
36	Role of the Ru and Support in Sulfided RuNiMo Catalysts in Simultaneous Hydrodearomatization (HDA), Hydrodesulfurization (HDS), and Hydrodenitrogenation (HDN) Reactions. Energy & Fuels, 2009, 23, 1364-1372.	5.1	16

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37	Photocatalytic Water Splitting Under Visible Light. Advances in Chemical Engineering, 2009, 36, 111-143.	0.9	77
38	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. Energy and Environmental Science, 2009, 2, 35-54.	30.8	378
39	Catalytic behaviour of bifunctional pumice-supported and zeolite/pumice hybrid catalysts for n-pentane hydroisomerization. Applied Catalysis A: General, 2008, 350, 38-45.	4.3	13
40	Hydrogen production for fuel cell by oxidative reforming of diesel surrogate: Influence of ceria and/or lanthana over the activity of Pt/Al2O3 catalysts. Fuel, 2008, 87, 2502-2511.	6.4	47
41	Performance of La,Ce-modified alumina-supported Pt and Ni catalysts for the oxidative reforming of diesel hydrocarbons. International Journal of Hydrogen Energy, 2008, 33, 652-663.	7.1	93
42	Ti-containing volcanic ash as photocatalyst for degradation of phenol. Energy and Environmental Science, 2008, 1, 364.	30.8	38
43	Catalytic behaviour of Pt or Pd metal nanoparticlesâ€“zeolite bifunctional catalysts for n-pentane hydroisomerization. Catalysis Communications, 2007, 8, 2081-2086.	3.3	17
44	Fischerâ€“Tropsch synthesis on mono- and bimetallic Co and Fe catalysts in fixed-bed and slurry reactors. Applied Catalysis A: General, 2007, 326, 65-73.	4.3	103
45	Effect of Ru on LaCoO3 perovskite-derived catalyst properties tested in oxidative reforming of diesel. Applied Catalysis B: Environmental, 2007, 73, 247-258.	20.2	80
46	Hydrogen production by oxidative reforming of hexadecane over Ni and Pt catalysts supported on Ce/La-doped Al2O3. Applied Catalysis A: General, 2006, 297, 60-72.	4.3	110
47	Surface and Structural Features of Co-Fe Oxide Nanoparticles Deposited on a Silica Substrate. European Journal of Inorganic Chemistry, 2006, 2006, 5057-5068.	2.0	50
48	Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al2O3 modified with Ce and La. Applied Catalysis B: Environmental, 2005, 55, 229-241.	20.2	156
49	Influence of feed composition on the activity of Mn and PdMn/Al2O3 catalysts for combustion of formaldehyde/methanol. Applied Catalysis B: Environmental, 2005, 57, 191-199.	20.2	101
50	Formaldehyde/methanol combustion on alumina-supported manganese-palladium oxide catalyst. Applied Catalysis B: Environmental, 2004, 51, 83-91.	20.2	128
51	Alumina-supported manganese- and manganeseâ€“palladium oxide catalysts for VOCs combustion. Catalysis Communications, 2003, 4, 223-228.	3.3	126