

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	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. Energy and Environmental Science, 2009, 2, 35-54.	30.8	378
2	Direct methane conversion routes to chemicals and fuels. Catalysis Today, 2011, 171, 15-23.	4.4	275
3	A framework for visible-light water splitting. Energy and Environmental Science, 2010, 3, 1865.	30.8	181
4	Upgrading of bio-liquids on different mesoporous silica-supported CoMo catalysts. Applied Catalysis B: Environmental, 2009, 92, 154-167.	20.2	158
5	Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al ₂ O ₃ modified with Ce and La. Applied Catalysis B: Environmental, 2005, 55, 229-241.	20.2	156
6	Formaldehyde/methanol combustion on alumina-supported manganese-palladium oxide catalyst. Applied Catalysis B: Environmental, 2004, 51, 83-91.	20.2	128
7	Alumina-supported manganese- and manganese-palladium oxide catalysts for VOCs combustion. Catalysis Communications, 2003, 4, 223-228.	3.3	126
8	Hydrogen production by oxidative reforming of hexadecane over Ni and Pt catalysts supported on Ce/La-doped Al ₂ O ₃ . Applied Catalysis A: General, 2006, 297, 60-72.	4.3	110
9	Influence of Zn concentration in the activity of Cd _{1-x} Zn _x S solid solutions for water splitting under visible light. Catalysis Today, 2009, 143, 51-56.	4.4	107
10	Fischer-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
11	Influence of feed composition on the activity of Mn and PdMn/Al ₂ O ₃ catalysts for combustion of formaldehyde/methanol. Applied Catalysis B: Environmental, 2005, 57, 191-199.	20.2	101
12	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
13	Oxidative reforming of diesel fuel over LaCoO ₃ perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. Applied Catalysis B: Environmental, 2011, 105, 276-288.	20.2	93
14	Effect of Ru on LaCoO ₃ perovskite-derived catalyst properties tested in oxidative reforming of diesel. Applied Catalysis B: Environmental, 2007, 73, 247-258.	20.2	80
15	Crystal Structure Features of CsPbBr ₃ Perovskite Prepared by Mechanochemical Synthesis. ACS Omega, 2020, 5, 5931-5938.	3.5	78
16	Photocatalytic Water Splitting Under Visible Light. Advances in Chemical Engineering, 2009, 36, 111-143.	0.9	77
17	Hydrogenolysis of anisole over mesoporous sulfided CoMoW/SBA-15(16) catalysts. Catalysis Today, 2011, 172, 103-110.	4.4	73
18	Elucidating the Methylammonium (MA) Conformation in MAPbBr ₃ Perovskite with Application in Solar Cells. Inorganic Chemistry, 2017, 56, 14214-14219.	4.0	64

#	ARTICLE	IF	CITATIONS
19	Transition Metal Phosphides for the Catalytic Hydrodeoxygenation of Waste Oils into Green Diesel. Catalysts, 2019, 9, 293.	3.5	63
20	Low-temperature conversion of phenol into CO, CO ₂ and H ₂ by steam reforming over La-containing supported Rh catalysts. Applied Catalysis B: Environmental, 2012, 117-118, 81-95.	20.2	62
21	Catalysts for Hydrogen Production from Heavy Hydrocarbons. ChemCatChem, 2011, 3, 440-457.	3.7	58
22	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. Applied Catalysis B: Environmental, 2009, 92, 445-453.	20.2	54
23	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
24	Hydrogen production for fuel cell by oxidative reforming of diesel surrogate: Influence of ceria and/or lanthana over the activity of Pt/Al ₂ O ₃ catalysts. Fuel, 2008, 87, 2502-2511.	6.4	47
25	Metal phosphide catalysts for the hydrotreatment of non-edible vegetable oils. Catalysis Today, 2018, 302, 242-249.	4.4	42
26	Ti-containing volcanic ash as photocatalyst for degradation of phenol. Energy and Environmental Science, 2008, 1, 364.	30.8	38
27	Biogas as a source of renewable syngas production: advances and challenges. Biofuels, 2011, 2, 325-343.	2.4	32
28	Surface reactivity of LaCoO ₃ and Ru/LaCoO ₃ towards CO, CO ₂ and C ₃ H ₈ : Effect of H ₂ and O ₂ pretreatments. Applied Catalysis B: Environmental, 2011, 102, 291-301.	20.2	28
29	Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of Cs ₂ AgSbCl ₆ Double Perovskite. Industrial & Engineering Chemistry Research, 2021, 60, 18918-18928.	3.7	26
30	Crystal structure features of CH ₃ NH ₃ PbI ₃ Br _x hybrid perovskites prepared by ball milling: a route to more stable materials. CrystEngComm, 2020, 22, 767-775.	2.6	24
31	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH ₃ NH ₃ Pb(Br _{1-x} Cl _x) ₃ Perovskites. Crystal Growth and Design, 2019, 19, 918-924.	3.0	22
32	Reforming of Diesel Fuel for Hydrogen Production over Catalysts Derived from LaCo _{1-x} M _x O ₃ (M=Ag, Ru, Fe). Topics in Catalysis, 2009, 52, 1995-2000.	2.8	19
33	Enhanced stability in CH ₃ NH ₃ PbI ₃ hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. Scientific Reports, 2020, 10, 11228.	3.3	19
34	Catalytic behaviour of Pt or Pd metal nanoparticles@zeolite bifunctional catalysts for n-pentane hydroisomerization. Catalysis Communications, 2007, 8, 2081-2086.	3.3	17
35	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
36	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

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37	Equilibrium and kinetics of adsorption of methylene blue on TiO ₂ -modified volcanic ashes. AICHE Journal, 2011, 57, 819-825.	3.6	12
38	Hydrogen Production from Water Splitting Using Photo-Semiconductor Catalysts. , 2013, , 43-61.		12
39	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
40	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
41	Structure and Reactivity of sol-gel V/SiO ₂ Catalysts for the Direct Conversion of Methane to Formaldehyde. Topics in Catalysis, 2017, 60, 1129-1139.	2.8	11
42	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
43	Dynamic Disorder Restriction of Methylammonium (MA) Groups in Chloride-Doped MAPbBr ₃ Hybrid Perovskites: A Neutron Powder Diffraction Study. Chemistry - A European Journal, 2019, 25, 4496-4500.	3.3	9
44	Structural evolution, optical gap and thermoelectric properties of CH ₃ NH ₃ SnBr ₃ hybrid perovskite, prepared by mechanochemistry. Materials Advances, 2021, 2, 3620-3628.	5.4	9
45	Magnetic Properties of Efficient Catalysts Based on La-Doped Ceria-Supported Nickel Nanoparticles for rWGS Reaction. Influence of Ni Loading. Advanced Sustainable Systems, 2021, 5, 2100029.	5.3	9
46	Cermets Ni/(Ce _{0.9} Ln _{0.1} O _{1.95}) (Ln = Gd, 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
47	M = Ir ⁴⁺ , Ta ⁵⁺ -Doped SrCo _{0.95} M _{0.05} O _{3-δ} Perovskites: Promising Solid-Oxide Fuel-Cell Cathodes. ACS Applied Energy Materials, 2021, 4, 500-509.	5.1	7
48	Detailed Structural Features of the Perovskite-Related Halide RbPbI ₃ for Solar Cell Applications. Inorganic Chemistry, 2022, 61, 5502-5511.	4.0	7
49	Renewable Syngas Production via Dry Reforming of Methane. Green Energy and Technology, 2013, , 45-66.	0.6	4
50	The structural evolution, optical gap, and thermoelectric properties of the RbPb ₂ Br ₅ layered halide, prepared by mechanochemistry. Journal of Materials Chemistry C, 2022, 10, 6857-6865.	5.5	4
51	Mechano-Chemical Synthesis, Structural Features and Optical Gap of Hybrid CH ₃ NH ₃ CdBr ₃ Perovskite. Materials, 2021, 14, 6039.	2.9	2