

# Consuelo Alvarez-Galvan

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,145  
citations

201385

27  
h-index

197535

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. <i>Energy and Environmental Science</i> , 2009, 2, 35-54.	15.6	378
2	Direct methane conversion routes to chemicals and fuels. <i>Catalysis Today</i> , 2011, 171, 15-23.	2.2	275
3	A framework for visible-light water splitting. <i>Energy and Environmental Science</i> , 2010, 3, 1865.	15.6	181
4	Upgrading of bio-liquids on different mesoporous silica-supported CoMo catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 154-167.	10.8	158
5	Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al <sub>2</sub> O <sub>3</sub> modified with Ce and La. <i>Applied Catalysis B: Environmental</i> , 2005, 55, 229-241.	10.8	156
6	Formaldehyde/methanol combustion on alumina-supported manganese-palladium oxide catalyst. <i>Applied Catalysis B: Environmental</i> , 2004, 51, 83-91.	10.8	128
7	Alumina-supported manganese- and manganese-palladium oxide catalysts for VOCs combustion. <i>Catalysis Communications</i> , 2003, 4, 223-228.	1.6	126
8	Hydrogen production by oxidative reforming of hexadecane over Ni and Pt catalysts supported on Ce/La-doped Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 2006, 297, 60-72.	2.2	110
9	Influence of Zn concentration in the activity of Cd <sub>1-x</sub> Zn <sub>x</sub> S solid solutions for water splitting under visible light. <i>Catalysis Today</i> , 2009, 143, 51-56.	2.2	107
10	Fischer-Tropsch synthesis on mono- and bimetallic Co and Fe catalysts in fixed-bed and slurry reactors. <i>Applied Catalysis A: General</i> , 2007, 326, 65-73.	2.2	103
11	Influence of feed composition on the activity of Mn and PdMn/Al <sub>2</sub> O <sub>3</sub> catalysts for combustion of formaldehyde/methanol. <i>Applied Catalysis B: Environmental</i> , 2005, 57, 191-199.	10.8	101
12	Performance of La,Ce-modified alumina-supported Pt and Ni catalysts for the oxidative reforming of diesel hydrocarbons. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 652-663.	3.8	93
13	Oxidative reforming of diesel fuel over LaCoO <sub>3</sub> perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. <i>Applied Catalysis B: Environmental</i> , 2011, 105, 276-288.	10.8	93
14	Effect of Ru on LaCoO <sub>3</sub> perovskite-derived catalyst properties tested in oxidative reforming of diesel. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 247-258.	10.8	80
15	Crystal Structure Features of CsPbBr <sub>3</sub> Perovskite Prepared by Mechanochemical Synthesis. <i>ACS Omega</i> , 2020, 5, 5931-5938.	1.6	78
16	Photocatalytic Water Splitting Under Visible Light. <i>Advances in Chemical Engineering</i> , 2009, 36, 111-143.	0.5	77
17	Hydrogenolysis of anisole over mesoporous sulfided CoMoW/SBA-15(16) catalysts. <i>Catalysis Today</i> , 2011, 172, 103-110.	2.2	73
18	Elucidating the Methylammonium (MA) Conformation in MAPbBr <sub>3</sub> Perovskite with Application in Solar Cells. <i>Inorganic Chemistry</i> , 2017, 56, 14214-14219.	1.9	64

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19	Transition Metal Phosphides for the Catalytic Hydrodeoxygenation of Waste Oils into Green Diesel. <i>Catalysts</i> , 2019, 9, 293.	1.6	63
20	Low-temperature conversion of phenol into CO, CO <sub>2</sub> and H <sub>2</sub> by steam reforming over La-containing supported Rh catalysts. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 81-95.	10.8	62
21	Catalysts for Hydrogen Production from Heavy Hydrocarbons. <i>ChemCatChem</i> , 2011, 3, 440-457.	1.8	58
22	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 445-453.	10.8	54
23	Surface and Structural Features of Co-Fe Oxide Nanoparticles Deposited on a Silica Substrate. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 5057-5068.	1.0	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 <sub>2</sub> O <sub>3</sub> catalysts. <i>Fuel</i> , 2008, 87, 2502-2511.	3.4	47
25	Metal phosphide catalysts for the hydrotreatment of non-edible vegetable oils. <i>Catalysis Today</i> , 2018, 302, 242-249.	2.2	42
26	Ti-containing volcanic ash as photocatalyst for degradation of phenol. <i>Energy and Environmental Science</i> , 2008, 1, 364.	15.6	38
27	Biogas as a source of renewable syngas production: advances and challenges. <i>Biofuels</i> , 2011, 2, 325-343.	1.4	32
28	Surface reactivity of LaCoO <sub>3</sub> and Ru/LaCoO <sub>3</sub> towards CO, CO <sub>2</sub> and C <sub>3</sub> H <sub>8</sub> : Effect of H <sub>2</sub> and O <sub>2</sub> pretreatments. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 291-301.	10.8	28
29	Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of Cs <sub>2</sub> AgSbCl <sub>6</sub> Double Perovskite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 18918-18928.	1.8	26
30	Crystal structure features of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Br <sub>x</sub> hybrid perovskites prepared by ball milling: a route to more stable materials. <i>CrystEngComm</i> , 2020, 22, 767-775.	1.3	24
31	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH <sub>3</sub> NH <sub>3</sub> Pb(Br <sub>1-x</sub> Cl <sub>x</sub> ) <sub>3</sub> Perovskites. <i>Crystal Growth and Design</i> , 2019, 19, 918-924.	1.4	22
32	Reforming of Diesel Fuel for Hydrogen Production over Catalysts Derived from LaCo <sub>1-x</sub> M <sub>x</sub> O <sub>3</sub> (M= Ru, Fe). <i>Topics in Catalysis</i> , 2009, 52, 1995-2000.	1.3	19
33	Enhanced stability in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. <i>Scientific Reports</i> , 2020, 10, 11228.	1.6	19
34	Catalytic behaviour of Pt or Pd metal nanoparticles@zeolite bifunctional catalysts for n-pentane hydroisomerization. <i>Catalysis Communications</i> , 2007, 8, 2081-2086.	1.6	17
35	Role of the Ru and Support in Sulfided RuNiMo Catalysts in Simultaneous Hydrodearomatization (HDA), Hydrodesulfurization (HDS), and Hydrodenitrogenation (HDN) Reactions. <i>Energy &amp; Fuels</i> , 2009, 23, 1364-1372.	2.5	16
36	Catalytic behaviour of bifunctional pumice-supported and zeolite/pumice hybrid catalysts for n-pentane hydroisomerization. <i>Applied Catalysis A: General</i> , 2008, 350, 38-45.	2.2	13

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37	Equilibrium and kinetics of adsorption of methylene blue on TiO <sub>2</sub> -modified volcanic ashes. <i>AICHE Journal</i> , 2011, 57, 819-825.	1.8	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. <i>Nano Research</i> , 2021, 14, 493-500.	5.8	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. <i>Catalysts</i> , 2021, 11, 88.	1.6	12
41	Structure and Reactivity of sol-gel V/SiO <sub>2</sub> Catalysts for the Direct Conversion of Methane to Formaldehyde. <i>Topics in Catalysis</i> , 2017, 60, 1129-1139.	1.3	11
42	Nickel ferrite supported on calcium-stabilized zirconia for solar hydrogen production by two-step thermochemical water splitting. <i>Materials Today Energy</i> , 2017, 6, 248-254.	2.5	10
43	Dynamic Disorder Restriction of Methylammonium (MA) Groups in Chloride-Doped MAPbBr <sub>3</sub> Hybrid Perovskites: A Neutron Powder Diffraction Study. <i>Chemistry - A European Journal</i> , 2019, 25, 4496-4500.	1.7	9
44	Structural evolution, optical gap and thermoelectric properties of CH <sub>3</sub> NH <sub>3</sub> SnBr <sub>3</sub> hybrid perovskite, prepared by mechanochemistry. <i>Materials Advances</i> , 2021, 2, 3620-3628.	2.6	9
45	Magnetic Properties of Efficient Catalysts Based on La-Doped Ceria-Supported Nickel Nanoparticles for rWGS Reaction. Influence of Ni Loading. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100029.	2.7	9
46	Cermets Ni/(Ce <sub>0.9</sub> Ln <sub>0.1</sub> O <sub>1.95</sub> ) (Ln = Gd, La, Nd and Sm) prepared by solution combustion method as catalysts for hydrogen production by partial oxidation of methane. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16834-16845.	3.8	7
47	M = Ir <sup>4+</sup> , Ta <sup>5+</sup> -Doped SrCo <sub>0.95</sub> M <sub>0.05</sub> O <sub>3-<math>\delta</math></sub> Perovskites: Promising Solid-Oxide Fuel-Cell Cathodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 500-509.	2.5	7
48	Detailed Structural Features of the Perovskite-Related Halide RbPbI <sub>3</sub> for Solar Cell Applications. <i>Inorganic Chemistry</i> , 2022, 61, 5502-5511.	1.9	7
49	Renewable Syngas Production via Dry Reforming of Methane. <i>Green Energy and Technology</i> , 2013, , 45-66.	0.4	4
50	The structural evolution, optical gap, and thermoelectric properties of the RbPb <sub>2</sub> Br <sub>5</sub> layered halide, prepared by mechanochemistry. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6857-6865.	2.7	4
51	Mechano-Chemical Synthesis, Structural Features and Optical Gap of Hybrid CH <sub>3</sub> NH <sub>3</sub> CdBr <sub>3</sub> Perovskite. <i>Materials</i> , 2021, 14, 6039.	1.3	2