

Maria E Galvez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109 papers	3,945 citations	39 h-index	57 g-index
109 ext. papers	4,588 ext. citations	5.9 avg, IF	5.81 L-index

#	Paper	IF	Citations
109	Alternative ball-milling synthesis of vanadium-substituted polyoxometalates as catalysts for the aerobic cleavage of C-C and C-O bonds. <i>Dalton Transactions</i> , 2021 , 50, 12850-12859	4.3	
108	Tailoring physicochemical and electrical properties of Ni/CeZrOx doped catalysts for high efficiency of plasma catalytic CO2 methanation. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120233	21.8	6
107	Effect of Na and K impurities on the performance of Ni/CeZrOx catalysts in DBD plasma-catalytic CO2 methanation. <i>Fuel</i> , 2021 , 306, 121639	7.1	5
106	Coupling experiment and simulation analysis to investigate physical parameters of CO2 methanation in a plasma-catalytic hybrid process. <i>Plasma Processes and Polymers</i> , 2020 , 17, 1900261	3.4	10
105	Ni/zeolite X derived from fly ash as catalysts for CO2 methanation. <i>Fuel</i> , 2020 , 267, 117139	7.1	35
104	Effect of Biodiesel impurities (K, Na, P) on non-catalytic and catalytic activities of Diesel soot in model DPF regeneration conditions. <i>Fuel Processing Technology</i> , 2020 , 199, 106293	7.2	13
103	Physical and chemical characterization of shock-induced cavitation. <i>Ultrasonics Sonochemistry</i> , 2020 , 69, 105270	8.9	2
102	Ni-Fe layered double hydroxide derived catalysts for non-plasma and DBD plasma-assisted CO2 methanation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10423-10432	6.7	30
101	Electrocatalytic behaviour of CeZrOx-supported Ni catalysts in plasma assisted CO2 methanation. <i>Catalysis Science and Technology</i> , 2020 , 10, 4532-4543	5.5	14
100	Structure, surface and reactivity of activated carbon: From model soot to Bio Diesel soot. <i>Fuel</i> , 2019 , 257, 116038	7.1	23
99	Novel Nickel- and Magnesium-Modified Cenospheres as Catalysts for Dry Reforming of Methane at Moderate Temperatures. <i>Catalysts</i> , 2019 , 9, 1066	4	4
98	Sonocatalytic oxidation of EDTA in aqueous solutions over noble metal-free Co3O4/TiO2 catalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 570-577	21.8	25
97	Structure-reactivity study of model and Biodiesel soot in model DPF regeneration conditions. <i>Fuel</i> , 2019 , 239, 373-386	7.1	22
96	Operando FT-IR study on basicity improvement of Ni(Mg, Al)O hydrotalcite-derived catalysts promoted by glow plasma discharge. <i>Plasma Science and Technology</i> , 2019 , 21, 045503	1.5	9
95	Plasma-catalytic hybrid process for CO2 methanation: optimization of operation parameters. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 629-643	1.6	19
94	TiO2/clay as a heterogeneous catalyst in photocatalytic/photochemical oxidation of anionic reactive blue 19. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 1454-1462	5.9	40
93	Syngas production from dry methane reforming over yttrium-promoted nickel-KIT-6 catalysts. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 274-286	6.7	52

92	Natural clay based nickel catalysts for dry reforming of methane: On the effect of support promotion (La, Al, Mn). <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 246-255	6.7	36
91	Examination of the influence of La promotion on Ni state in hydrotalcite-derived catalysts under CO ₂ methanation reaction conditions: Operando X-ray absorption and emission spectroscopy investigation. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 409-419	21.8	58
90	The influence of lanthanum incorporation method on the performance of nickel-containing hydrotalcite-derived catalysts in CO ₂ methanation reaction. <i>Catalysis Today</i> , 2018 , 307, 205-211	5.3	39
89	Natural clay-based Ni-catalysts for dry reforming of methane at moderate temperatures. <i>Catalysis Today</i> , 2018 , 306, 51-57	5.3	21
88	Efficient removal of cadmium and 2-chlorophenol in aqueous systems by natural clay: Adsorption and photo-Fenton degradation processes. <i>Comptes Rendus Chimie</i> , 2018 , 21, 253-262	2.7	29
87	Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO ₂ methane reforming. <i>Applied Catalysis B: Environmental</i> , 2018 , 223, 36-46	21.8	73
86	Experimental investigation on the influence of the presence of alkali compounds on the performance of a commercial PtPd/Al ₂ O ₃ diesel oxidation catalyst. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 715-725	4.3	5
85	Natural Hematite and Siderite as Heterogeneous Catalysts for an Effective Degradation of 4-Chlorophenol via Photo-Fenton Process. <i>ChemEngineering</i> , 2018 , 2, 29	2.6	5
84	Dry reforming of methane over Zr- and Y-modified Ni/Mg/Al double-layered hydroxides. <i>Catalysis Communications</i> , 2018 , 117, 26-32	3.2	33
83	Yttrium promoted Ni-based double-layered hydroxides for dry methane reforming. <i>Journal of CO₂ Utilization</i> , 2018 , 27, 247-258	7.6	58
82	MnO _x -CeO ₂ mixed oxides as the catalyst for NO-assisted soot oxidation: The key role of NO adsorption/desorption on catalytic activity. <i>Applied Surface Science</i> , 2018 , 462, 678-684	6.7	27
81	Excess-methane dry and oxidative reforming on Ni-containing hydrotalcite-derived catalysts for biogas upgrading into synthesis gas. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11981-11989	6.7	16
80	Photocatalytic decolorization of cationic and anionic dyes over ZnO nanoparticle immobilized on natural Tunisian clay. <i>Applied Clay Science</i> , 2018 , 152, 148-157	5.2	74
79	NiMo ₂ C supported on alumina as a substitute for NiMo reduced catalysts supported on alumina material for dry reforming of methane. <i>Comptes Rendus Chimie</i> , 2018 , 21, 247-252	2.7	8
78	Nickel Supported Modified Ceria Zirconia Lanthanum/ Praseodymium/Yttrium Oxides Catalysts for Syngas Production through Dry Methane Reforming. <i>Materials Science Forum</i> , 2018 , 941, 2214-2219	0.4	5
77	Synthesis Gas Production via Dry Reforming of Methane over Manganese Promoted Nickel/Cerium Zirconium Oxide Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16643-16656	3.9	34
76	New Approach for Understanding the Oxidation Stability of Neopolyol Ester Lubricants Using a Small-Scale Oxidation Test Method. <i>ACS Omega</i> , 2018 , 3, 10449-10459	3.9	5
75	Mg-promotion of Ni natural clay-supported catalysts for dry reforming of methane.. <i>RSC Advances</i> , 2018 , 8, 19627-19634	3.7	10

74	Influence of the Alumina Precursor on the Activity of Structured Fe ₃ O ₄ /Al ₂ O ₃ Catalysts Towards the Simultaneous Removal of Soot and NO _x . <i>Topics in Catalysis</i> , 2017 , 60, 355-360	2.3	
73	Shock-induced cavitation as a way of accelerating phenol oxidation in aqueous media. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 112, 47-55	3.7	4
72	Ceria and zirconia modified natural clay based nickel catalysts for dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23508-23516	6.7	21
71	Influence of Ce/Zr molar ratio on catalytic performance of hydrotalcite-derived catalysts at low temperature CO ₂ methane reforming. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23556-23567	6.7	46
70	Mo-promoted Ni/Al ₂ O ₃ catalyst for dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23500-23507	6.7	40
69	The influence of nickel content on the performance of hydrotalcite-derived catalysts in CO ₂ methanation reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23548-23555	6.7	68
68	Catalytic activity of hydrotalcite-derived catalysts in the dry reforming of methane: on the effect of Ce promotion and feed gas composition. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 121, 185-208	1.6	32
67	Plasma DBD activated ceria-zirconia-promoted Ni-catalysts for plasma catalytic CO ₂ hydrogenation at low temperature. <i>Catalysis Communications</i> , 2017 , 89, 73-76	3.2	48
66	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. <i>Materials</i> , 2017 , 10,	3.5	19
65	A Short Review on the Catalytic Activity of Hydrotalcite-Derived Materials for Dry Reforming of Methane. <i>Catalysts</i> , 2017 , 7, 32	4	78
64	Alumina-Supported Ni-Mo Carbides as Promising Catalysts for CO ₂ Methanation. <i>Modern Research in Catalysis</i> , 2017 , 06, 135-145	0.6	4
63	Nanooxides Derived from Hydrotalcites as Catalysts for Dry Methane Reforming Reaction - Effect of [Ni(EDTA)] ²⁻ Adsorption Time. <i>Materials Science Forum</i> , 2016 , 879, 396-401	0.4	0
62	Methane dry reforming over hydrotalcite-derived Ni-Mg-Al mixed oxides: the influence of Ni content on catalytic activity, selectivity and stability. <i>Catalysis Science and Technology</i> , 2016 , 6, 6705-6715	5.5	90
61	Heterogeneous TiO ₂ /Fe-plate catalyst for the discoloration and mineralization of aqueous solutions of cationic and anionic dyes. <i>Desalination and Water Treatment</i> , 2016 , 57, 13505-13517		7
60	Low temperature dry methane reforming over Ce, Zr and CeZr promoted Ni-Mg-Al hydrotalcite-derived catalysts. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11616-11623	6.7	90
59	Photocatalytic degradation of methyl green dye in aqueous solution over natural clay-supported ZnO/TiO ₂ catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 315, 25-33	4.7	115
58	Hybrid plasma-catalytic methanation of CO ₂ at low temperature over ceria zirconia supported Ni catalysts. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11584-11592	6.7	93
57	La-promoted Ni-hydrotalcite-derived catalysts for dry reforming of methane at low temperatures. <i>Fuel</i> , 2016 , 182, 8-16	7.1	118

56	Sulfurized carbon xerogels as Pt support with enhanced activity for fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 260-267	21.8	35
55	Novel Ni-La-hydrotalcite derived catalysts for CO ₂ methanation. <i>Catalysis Communications</i> , 2016 , 83, 5-8	3.2	112
54	Low temperature hybrid plasma-catalytic methanation over Ni-Ce-Zr hydrotalcite-derived catalysts. <i>Catalysis Communications</i> , 2016 , 83, 14-17	3.2	54
53	Tailoring carbon xerogels' properties to enhance catalytic activity of Pt catalysts towards methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14736-14745	6.7	11
52	Design Principles of Perovskites for Thermochemical Oxygen Separation. <i>ChemSusChem</i> , 2015 , 8, 1966-78	3	73
51	Ni-containing Ce-promoted hydrotalcite derived materials as catalysts for methane reforming with carbon dioxide at low temperature [On the effect of basicity. <i>Catalysis Today</i> , 2015 , 257, 59-65	5.3	113
50	Photo-Fenton oxidation of phenol over a Cu-doped Fe-pillared clay. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1161-1169	2.7	26
49	Ni/Al hydrotalcite-like material as the catalyst precursors for the dry reforming of methane at low temperature. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1205-1210	2.7	29
48	Carbon-based catalysts: Synthesis and applications. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1229-1241	2.7	29
47	Influence of gas hourly space velocity on the activity of monolithic catalysts for the simultaneous removal of soot and NO _x . <i>Comptes Rendus Chimie</i> , 2015 , 18, 1007-1012	2.7	11
46	Enhanced catalytic stability through non-conventional synthesis of Ni/SBA-15 for methane dry reforming at low temperatures. <i>Applied Catalysis A: General</i> , 2015 , 504, 143-150	5.1	90
45	Synthesis strategies of ceria/zirconia doped Ni/SBA-15 catalysts for methane dry reforming. <i>Catalysis Communications</i> , 2015 , 59, 108-112	3.2	67
44	Lanthanum Manganite Perovskites with Ca/Sr A-site and Al B-site Doping as Effective Oxygen Exchange Materials for Solar Thermochemical Fuel Production. <i>Energy Technology</i> , 2015 , 3, 1130-1142	3.5	95
43	Titanium Dioxide Supported on Different Porous Materials as Photocatalyst for the Degradation of Methyl Green in Wastewaters. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-10	1.5	11
42	Physico-chemical changes in Ca, Sr and Al-doped La-Mn-O perovskites upon thermochemical splitting of CO ₂ via redox cycling. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6629-34	3.6	84
41	Influence of the Synthesis Method for Pt Catalysts Supported on Highly Mesoporous Carbon Xerogel and Vulcan Carbon Black on the Electro-Oxidation of Methanol. <i>Catalysts</i> , 2015 , 5, 392-405	4	23
40	Fast and reversible direct CO ₂ capture from air onto all-polymer nanofibrillated cellulose-polyethylenimine foams. <i>Environmental Science & Technology</i> , 2015 , 49, 3167-74	10.3	100
39	Fe-clay-plate as a heterogeneous catalyst in photo-Fenton oxidation of phenol as probe molecule for water treatment. <i>Applied Clay Science</i> , 2014 , 91-92, 46-54	5.2	75

38	Towards new generation fuel cell electrocatalysts based on xerogel/nanofiber carbon composites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13713	13	30
37	Towards an optimal synthesis route for the preparation of highly mesoporous carbon xerogel-supported Pt catalysts for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 947-957	21.8	44
36	Influence of synthesis parameters of SBA-15 supported palladium catalysts for methane combustion and simultaneous NO _x reduction. <i>Microporous and Mesoporous Materials</i> , 2014 , 183, 1-8	5.3	17
35	On the influence of the alumina precursor in Fe-K/Al ₂ O ₃ structured catalysts for the simultaneous removal of soot and NO _x : From surface properties to reaction mechanism. <i>Comptes Rendus Chimie</i> , 2014 , 17, 681-686	2.7	5
34	Mechanism of Zn Particle Oxidation by HO and CO in the Presence of ZnO. <i>Chemistry of Materials</i> , 2014 , 26, 6486-6495	9.6	28
33	Influence of the Alkali Promoter on the Activity and Stability of Transition Metal (Cu, Co, Fe) Based Structured Catalysts for the Simultaneous Removal of Soot and NO _x . <i>Topics in Catalysis</i> , 2013 , 56, 493-498	2.3	18
32	Influence of Operational Parameters in the Heterogeneous Photo-Fenton Discoloration of Wastewaters in the Presence of an Iron-Pillared Clay. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16656-16665	3.9	49
31	Me (Cu, Co, V)-K/Al ₂ O ₃ supported catalysts for the simultaneous removal of soot and nitrogen oxides from diesel exhausts. <i>Chemical Engineering Science</i> , 2013 , 87, 75-90	4.4	20
30	Platinum Ruthenium Catalysts Supported on Carbon Xerogel for Methanol Electro-Oxidation: Influence of the Catalyst Synthesis Method. <i>ChemCatChem</i> , 2013 , 5, 3770-3780	5.2	18
29	Oxygen-Functionalized Highly Mesoporous Carbon Xerogel Based Catalysts for Direct Methanol Fuel Cell Anodes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13045-13058	3.8	39
28	PtRu Nanoparticles Deposited by the Sulfite Complex Method on Highly Porous Carbon Xerogels: Effect of the Thermal Treatment. <i>Catalysts</i> , 2013 , 3, 744-756	4	8
27	Nanostructured Carbon Materials as Supports in the Preparation of Direct Methanol Fuel Cell Electrocatalysts. <i>Catalysts</i> , 2013 , 3, 671-682	4	13
26	Cesium as Alkali Promoter in Me-Cs (Me = Cu, Co, Fe)/Al ₂ O ₃ /Structured Catalysts for the Simultaneous Removal of Soot and NO _x . <i>Modern Research in Catalysis</i> , 2013 , 02, 57-62	0.6	2
25	Catalytic filters for the simultaneous removal of soot and NO _x : Influence of the alumina precursor on monolith washcoating and catalytic activity. <i>Catalysis Today</i> , 2012 , 191, 96-105	5.3	31
24	Influence of support oxygen functionalization on the activity of Pt/carbon xerogels catalysts for methanol electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7180-7191	6.7	36
23	Tailoring Synthesis Conditions of Carbon Xerogels towards Their Utilization as Pt-Catalyst Supports for Oxygen Reduction Reaction (ORR). <i>Catalysts</i> , 2012 , 2, 466-489	4	27
22	Soot oxidation in the presence of NO over alumina-supported bimetallic catalysts KMe (Me=Cu, Co, V). <i>Catalysis Today</i> , 2011 , 176, 361-364	5.3	11
21	Catalytic filters for the simultaneous removal of soot and NO _x : Effect of CO ₂ and steam on the exhaust gas of diesel engines. <i>Catalysis Today</i> , 2011 , 176, 134-138	5.3	7

20	Solar Aluminum Production by Vacuum Carbothermal Reduction of Alumina—Thermodynamic and Experimental Analyses. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011 , 42, 254-260	2.5	42
19	Low-cost carbon-based briquettes for the reduction of NO emissions: Optimal preparation procedure and influence in operating conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010 , 88, 80-90	6	9
18	CO ₂ splitting in an aerosol flow reactor via the two-step Zn/ZnO solar thermochemical cycle. <i>Chemical Engineering Science</i> , 2010 , 65, 1855-1864	4.4	40
17	Production of AlN by Carbothermal and Methanothermal Reduction of Al ₂ O ₃ in a N ₂ Flow Using Concentrated Thermal Radiation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 528-533	3.9	22
16	CO ₂ Splitting via Two-Step Solar Thermochemical Cycles with Zn/ZnO and FeO/Fe ₃ O ₄ Redox Reactions II: Kinetic Analysis. <i>Energy & Fuels</i> , 2009 , 23, 2832-2839	4.1	89
15	Ammonia Production via a Two-Step Al ₂ O ₃ /AlN Thermochemical Cycle. 3. Influence of the Carbon Reducing Agent and Cyclability. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2231-2237	3.9	30
14	CO ₂ Splitting via Two-Step Solar Thermochemical Cycles with Zn/ZnO and FeO/Fe ₃ O ₄ Redox Reactions: Thermodynamic Analysis. <i>Energy & Fuels</i> , 2008 , 22, 3544-3550	4.1	128
13	Solar hydrogen production via a two-step thermochemical process based on MgO/Mg redox reactions—Thermodynamic and kinetic analyses. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2880-2890	6.7	62
12	Carbon based catalytic briquettes for the reduction of NO: Catalyst scale-up. <i>Catalysis Today</i> , 2008 , 137, 209-214	5.3	9
11	Novel carbon based catalysts for the reduction of NO: Influence of support precursors and active phase loading. <i>Catalysis Today</i> , 2008 , 137, 215-221	5.3	15
10	Carbon-based catalytic briquettes for the reduction of NO: Effect of H ₂ SO ₄ and HNO ₃ carbon support treatment. <i>Fuel</i> , 2008 , 87, 2058-2068	7.1	48
9	Ammonia Production via a Two-Step Al ₂ O ₃ /AlN Thermochemical Cycle. 1. Thermodynamic, Environmental, and Economic Analyses. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2042-2046	3.8	68
8	Low-cost carbon-based briquettes for the reduction of no emissions from medium-small stationary sources. <i>Catalysis Today</i> , 2007 , 119, 175-180	5.3	14
7	Preparation of steam-activated carbons as catalyst supports. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007 , 78, 301-315	6	34
6	Hydrogen production by thermo-catalytic decomposition of methane: Regeneration of active carbons using CO ₂ . <i>Journal of Power Sources</i> , 2007 , 169, 103-109	8.9	61
5	Ammonia Production via a Two-Step Al ₂ O ₃ /AlN Thermochemical Cycle. 2. Kinetic Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2047-2053	3.9	47
4	Vanadium loaded carbon-based catalysts for the reduction of nitric oxide. <i>Applied Catalysis B: Environmental</i> , 2006 , 68, 130-138	21.8	30
3	Characterization and kinetic study of carbon-based briquettes for the reduction of NO. <i>Carbon</i> , 2006 , 44, 2399-2403	10.4	19

2	Low cost catalytic sorbents for NOx reduction. 3. NO reduction tests using NH3 as reducing agent. <i>Fuel</i> , 2004 , 83, 875-884	7.1	16
1	Nickel Supported Modified Zirconia Catalysts for CO2 Methanation in DBD Plasma Catalytic Hybrid Process. <i>Materials Science Forum</i> , 1016, 894-899	0.4	3