

Antonio Monzon

List of Publications by Year in descending order

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110
papers

4,165
citations

109321

35
h-index

118850

62
g-index

110
all docs

110
docs citations

110
times ranked

4185
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of carbon nanofibers: effects of Ni crystal size during methane decomposition. Journal of Catalysis, 2005, 229, 82-96.	6.2	429
2	Methane reforming with CO ₂ over Ni/ZrO ₂ -CeO ₂ catalysts prepared by sol-gel. Catalysis Today, 2000, 63, 71-85.	4.4	285
3	Catalytic decomposition of methane over Ni-Al ₂ O ₃ coprecipitated catalysts. Applied Catalysis A: General, 2003, 252, 363-383.	4.3	220
4	Steam-methane reforming at low temperature on nickel-based catalysts. Chemical Engineering Journal, 2014, 235, 158-166.	12.7	182
5	Improved explicit equations for estimation of the friction factor in rough and smooth pipes. Chemical Engineering Journal, 2002, 86, 369-374.	12.7	165
6	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO ₂ and La ₂ O ₃ zirconia catalysts. International Journal of Hydrogen Energy, 2018, 43, 18955-18976.	7.1	165
7	Dehydrogenation of isopropyl alcohol on a Cu/SiO ₂ catalyst: a study of the activity evolution and reactivation of the catalyst. Applied Catalysis A: General, 1996, 142, 375-386.	4.3	129
8	Growing mechanism of CNTs: a kinetic approach. Journal of Catalysis, 2004, 224, 197-205.	6.2	99
9	Development of Ni-Cu-Mg-Al catalysts for the synthesis of carbon nanofibers by catalytic decomposition of methane. Journal of Catalysis, 2007, 251, 223-232.	6.2	89
10	Hydrogenation of Acetylene over Ni/NiAl ₂ O ₄ Catalyst: Characterization, Coking, and Reaction Studies. Journal of Catalysis, 1996, 159, 313-322.	6.2	84
11	Elucidation of Catalyst Support Effect for NH ₃ Decomposition Using Ru Nanoparticles on Nitrogen-Functionalized Carbon Nanofiber Monoliths. Journal of Physical Chemistry C, 2012, 116, 26385-26395.	3.1	73
12	Aluminium foams as structured supports for volatile organic compounds (VOCs) oxidation. Applied Catalysis A: General, 2008, 340, 125-132.	4.3	70
13	Effect of Zn Content on Catalytic Activity and Physicochemical Properties of Ni-Based Catalysts for Selective Hydrogenation of Acetylene. Journal of Catalysis, 1997, 171, 268-278.	6.2	69
14	Improvement of activity and stability of Ni-Mg-Al catalysts by Cu addition during hydrogen production by catalytic decomposition of methane. Catalysis Today, 2006, 116, 264-270.	4.4	68
15	Acetylene hydrogenation over Ni-Si-Al mixed oxides prepared by sol-gel technique. Applied Catalysis A: General, 2003, 251, 199-214.	4.3	65
16	Deactivation and regeneration of Cu/SiO ₂ catalyst in the hydrogenation of maleic anhydride. Kinetic modeling. Applied Catalysis A: General, 2009, 367, 122-129.	4.3	65
17	Production of carbon nanotubes from methane Use of Co-Zn-Al catalysts prepared by microwave-assisted synthesis. Chemical Engineering Journal, 2009, 149, 455-462.	12.7	62
18	Hydrodeoxygenation of vanillin over noble metal catalyst supported on biochars: Part II: Catalytic behaviour. Applied Catalysis B: Environmental, 2020, 268, 118425.	20.2	61

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19	A Langmuir-Hinshelwood approach to the kinetic modelling of catalytic ammonia decomposition in an integral reactor. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12104.	2.8	58
20	Ni on alumina-coated cordierite monoliths for in situ generation of CO-free H ₂ from ammonia. <i>Journal of Catalysis</i> , 2010, 275, 228-235.	6.2	55
21	Dehydration of glucose to 5-Hydroxymethylfurfural on bifunctional carbon catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119938.	20.2	55
22	Acetylene hydrogenation on Ni-Al-Cr oxide catalysts: the role of added Zn. <i>Applied Clay Science</i> , 1998, 13, 363-379.	5.2	54
23	Carbon Nanotube Growth by Catalytic Chemical Vapor Deposition: A Phenomenological Kinetic Model. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4773-4782.	3.1	54
24	Use of hydrotalcites as catalytic precursors of multimetallic mixed oxides. Application in the hydrogenation of acetylene. <i>Applied Catalysis A: General</i> , 1999, 185, 53-63.	4.3	53
25	Oxidation of Methane to Synthesis Gas in a Fluidized Bed Reactor Using MgO-Based Catalysts. <i>Journal of Catalysis</i> , 1996, 158, 83-91.	6.2	50
26	Enhanced selectivity and stability of Pt-Ge/Al ₂ O ₃ catalysts by Ca promotion in propane dehydrogenation. <i>Chemical Engineering Journal</i> , 2021, 405, 126656.	12.7	49
27	Relationship between the kinetic parameters of different catalyst deactivation models. <i>Chemical Engineering Journal</i> , 2003, 94, 19-28.	12.7	48
28	Sintering and redispersion of Pt/Al ₂ O ₃ catalysts: a kinetic model. <i>Applied Catalysis A: General</i> , 2003, 248, 279-289.	4.3	48
29	Texturising and structuring mechanisms of carbon nanofilaments during growth. <i>Journal of Materials Chemistry</i> , 2007, 17, 4611.	6.7	44
30	Development of aligned carbon nanotubes layers over stainless steel mesh monoliths. <i>Catalysis Today</i> , 2009, 147, S71-S75.	4.4	44
31	Metal catalysts supported on biochars: Part I synthesis and characterization. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118423.	20.2	43
32	Some intrinsic kinetic equations and deactivation mechanisms leading to deactivation curves with a residual activity. <i>Industrial & Engineering Chemistry Research</i> , 1988, 27, 375-381.	3.7	41
33	Deactivation model with residual activity to study thioresistance and thiotolerance of naphtha reforming catalysts. <i>Journal of Catalysis</i> , 1994, 146, 69-81.	6.2	40
34	Modeling of the deactivation kinetics of solid catalysts by two or more simultaneous and different causes. <i>Industrial & Engineering Chemistry Research</i> , 1988, 27, 369-374.	3.7	39
35	Deactivation by coking and poisoning of spinel-type Ni catalysts. <i>Catalysis Today</i> , 1997, 37, 255-265.	4.4	35
36	Ni-Co-Mg-Al catalysts for hydrogen and carbonaceous nanomaterials production by CCVD of methane. <i>Catalysis Today</i> , 2011, 172, 143-151.	4.4	35

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37	Fourier transform infrared spectroscopic study of coke deposits on a Cr ₂ O ₃ /Al ₂ O ₃ catalyst. <i>Vibrational Spectroscopy</i> , 1995, 9, 191-196.	2.2	34
38	Kinetic Modeling of the SWNT Growth by CO Disproportionation on CoMo Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 6141-6152.	0.9	34
39	Deactivation by Coke of a Cr ₂ O ₃ /Al ₂ O ₃ Catalyst During Butene Dehydrogenation. <i>Journal of Catalysis</i> , 1993, 142, 59-69.	6.2	32
40	In situ generation of CO _x -free H ₂ by catalytic ammonia decomposition over Ru-Al-monoliths. <i>Fuel</i> , 2018, 233, 851-859.	6.4	32
41	Stacked wire-mesh monoliths for VOCs combustion: Effect of the mesh-opening in the catalytic performance. <i>Catalysis Today</i> , 2017, 296, 76-83.	4.4	31
42	Kinetics of carbon nanotubes growth on a Ni-Mg-Al catalyst by CCVD of methane: Influence of catalyst deactivation. <i>Catalysis Today</i> , 2010, 154, 217-223.	4.4	29
43	Selective synthesis of carbon nanotubes by catalytic decomposition of methane using Co-Cu/cellulose derived carbon catalysts: A comprehensive kinetic study. <i>Chemical Engineering Journal</i> , 2021, 404, 126103.	12.7	29
44	Modelling of experimental vanillin hydrodeoxygenation reactions in water/oil emulsions. Effects of mass transport. <i>Catalysis Today</i> , 2013, 210, 89-97.	4.4	27
45	Deactivation and regeneration of Pt/Al ₂ O ₃ catalysts during the hydrodechlorination of carbon tetrachloride. <i>Applied Catalysis B: Environmental</i> , 2009, 87, 211-219.	20.2	25
46	Syntheses of CNTs over several iron-supported catalysts: influence of the metallic precursors. <i>Catalysis Today</i> , 2004, 93-95, 681-687.	4.4	24
47	Regeneration strategies for coked fixed bed reactors. <i>Chemical Engineering Science</i> , 1991, 46, 11-21.	3.8	23
48	Coking kinetics of fresh and thermally aged commercial Cr ₂ O ₃ /Al ₂ O ₃ catalyst. <i>Applied Catalysis A: General</i> , 1993, 101, 185-198.	4.3	21
49	Promotion of Ni/MgAl ₂ O ₄ Catalysts with Rare Earths for the Ethanol Steam Reforming Reaction. <i>Catalysis Letters</i> , 2012, 142, 1461-1469.	2.6	21
50	Catalyst sintering in fixed-bed reactors: Deactivation rate and thermal history. <i>AIChE Journal</i> , 1992, 38, 237-243.	3.6	20
51	Hydrogenation of 1,3-butadiene on Pd/SiO ₂ in the presence of H ₂ S deactivation and reactivation of the catalyst. <i>Applied Catalysis A: General</i> , 1997, 165, 147-157.	4.3	19
52	Thermal Stability of Pt/Al ₂ O ₃ Catalysts Prepared by Sol-Gel. <i>Journal of Solid State Chemistry</i> , 2002, 168, 343-353.	2.9	19
53	New Ni-Cu-Mg-Al-based catalysts preparation procedures for the synthesis of carbon nanofibers and nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1162-1167.	4.0	19
54	Synthesis of graphenic nanomaterials by decomposition of methane on a Ni-Cu/biomorphic carbon catalyst. Kinetic and characterization results. <i>Catalysis Today</i> , 2018, 299, 67-79.	4.4	19

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55	Regeneration of Coked Catalysts: The Effect of Aging upon the Characteristics of the Coke Deposits. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2563-2570.	3.7	18
56	Modelling of sulfur deactivation of naphtha-reforming catalysts Structure sensitivity in cyclopentane hydrogenolysis. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2445-2450.	1.7	18
57	Promotion by a second metal or SO ₂ over vanadium supported on mesoporous carbon-coated monoliths for the SCR of NO at low temperature. <i>Catalysis Today</i> , 2005, 102-103, 177-182.	4.4	17
58	Highly Active Ce- and Mg-Promoted Ni Catalysts Supported on Cellulose-Derived Carbon for Low-Temperature CO ₂ Methanation. <i>Energy & Fuels</i> , 2021, 35, 17212-17224.	5.1	17
59	Carbon nanofiber growth onto a cordierite monolith coated with Co-mordenite. <i>Catalysis Today</i> , 2008, 133-135, 7-12.	4.4	16
60	Desulfurization and Catalytic Gas Cleaning in Fluidized-Bed Co-gasification of Sewage Sludge-Coal Blends. <i>Energy & Fuels</i> , 2013, 27, 2846-2856.	5.1	16
61	A kinetic model for activation-deactivation processes in solid catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 111-122.	3.7	15
62	Synthesis of Pd-Al/biomorphic carbon catalysts using cellulose as carbon precursor. <i>Catalysis Today</i> , 2018, 301, 226-238.	4.4	15
63	Characterization of the active sites of Ni-Si-Al sol-gel hydrogenation catalysts. <i>Studies in Surface Science and Catalysis</i> , 2000, , 3345-3350.	1.5	14
64	Gas Phase Selective Hydrogenation of Acetylene. Importance of the Formation of Ni-Co and Ni-Cu Bimetallic Clusters on the Selectivity and Coke Deposition. <i>Studies in Surface Science and Catalysis</i> , 2001, 139, 37-44.	1.5	14
65	Kinetic study of trichloroethylene combustion on exchanged zeolites catalysts. <i>Journal of Hazardous Materials</i> , 2011, 190, 903-908.	12.4	14
66	Dry powder formulation for pulmonary infections: Ciprofloxacin loaded in chitosan sub-micron particles generated by electrospray. <i>Carbohydrate Polymers</i> , 2021, 273, 118543.	10.2	14
67	Preparation of stainless steel microreactors coated with carbon nanofiber layer: Impact of hydrocarbon and temperature. <i>Catalysis Today</i> , 2009, 147, S87-S93.	4.4	13
68	Unraveling the growth of vertically aligned multi-walled carbon nanotubes by chemical vapor deposition. <i>Materials Research Express</i> , 2014, 1, 045604.	1.6	13
69	Fructose dehydration reaction over functionalized nanographitic catalysts in MIBK/H ₂ O biphasic system. <i>Catalysis Today</i> , 2021, 366, 68-76.	4.4	13
70	Coking kinetics of a Cr ₂ O ₃ /Al ₂ O ₃ catalyst during 1-butene dehydrogenation: Effect of H ₂ partial pressure. <i>Canadian Journal of Chemical Engineering</i> , 1996, 74, 1034-1038.	1.7	12
71	Development of Ni-Al Catalysts for Hydrogen and Carbon Nanofibre Production by Catalytic Decomposition of Methane. Effect of MgO Addition. <i>Topics in Catalysis</i> , 2008, 51, 158-168.	2.8	12
72	AN EXPERIMENTAL STUDY OF METHANE OXIDATIVE COUPLING IN FIXED BED REACTORS WITH A DISTRIBUTED OXYGEN FEED. <i>Chemical Engineering Communications</i> , 1995, 135, 175-184.	2.6	11

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73	Steam reforming of clean biogas over Rh and Ru open-cell metallic foam structured catalysts. <i>Catalysis Today</i> , 2022, 383, 74-83.	4.4	11
74	Regeneration of Fixed-Bed Catalytic Reactors Deactivated by Coke: Influence of Operating Conditions and of Different Pretreatments of the Coke Deposits. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 1813-1823.	3.7	10
75	Modelling of sintering kinetics of naphtha-reforming Pt/Al ₂ O ₃ -Cl catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2637-2640.	1.7	10
76	Pt-MgZnCuAl hydrotalcite-derived catalysts in the reduction of nitrates using continuous and batch reactors. <i>Catalysis Today</i> , 2011, 175, 328-337.	4.4	10
77	Process Optimisation of In Situ H ₂ Generation From Ammonia Using Ni on Alumina Coated Cordierite Monoliths. <i>Topics in Catalysis</i> , 2011, 54, 914-921.	2.8	10
78	Carbon nanotube formation during propane decomposition on boron-modified Co/Al ₂ O ₃ catalysts: A kinetic study. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18016-18026.	7.1	10
79	Use of Ni Catalysts Supported on Biomorphic Carbon Derived From Lignocellulosic Biomass Residues in the Decomposition of Methane. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	10
80	Insights into catalyst structure, kinetics and reaction mechanism during propane dehydrogenation on Pt-Ge bimetallic catalysts. <i>Applied Catalysis A: General</i> , 2022, 643, 118751.	4.3	10
81	Kinetics of liquid phase cyclohexene hydrogenation on Pd-Al/biomorphic carbon catalysts. <i>Catalysis Today</i> , 2015, 249, 127-136.	4.4	9
82	Growth of carbonaceous nanomaterials over stainless steel foams. Effect of activation temperature. <i>Catalysis Today</i> , 2016, 273, 41-49.	4.4	9
83	Activity, selectivity and coking of bimetallic Ni-Co-spinel catalysts in selective hydrogenation reactions. <i>Studies in Surface Science and Catalysis</i> , 1997, 111, 183-190.	1.5	8
84	Methane reforming with CO ₂ over Ni/ZrO ₂ -CeO ₂ and Ni/ZrO ₂ -MgO catalysts synthesized by sol-gel method. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 3669-3674.	1.5	8
85	Performance of AISI 316L-stainless steel foams towards the formation of graphene related nanomaterials by catalytic decomposition of methane at high temperature. <i>Catalysis Today</i> , 2022, 383, 236-246.	4.4	8
86	Development of one-pot Cu/cellulose derived carbon catalysts for RWGS reaction. <i>Fuel</i> , 2022, 319, 123707.	6.4	8
87	Functionalization of carbon nanofibers coated on cordierite monoliths by oxidative treatment. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 483-486.	1.5	7
88	Catalytic oxidation of carbon tetrachloride on metal exchanged Y-zeolite. <i>Chemical Engineering Journal</i> , 2012, 198-199, 18-26.	12.7	7
89	In-situ preparation of a highly accessible Pt/CNF catalytic layer on metallic microchannel reactors. Application to the SELOX reaction. <i>Applied Catalysis A: General</i> , 2015, 505, 193-199.	4.3	7
90	Flow model for the solid in a continuous fluidized bed with increase of the cross section in its upper zone. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1986, 25, 188-197.	0.6	6

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91	The modeling of the kinetics of deactivation of a commercial hydrocracking catalyst in the reaction of cumene disproportionation. <i>Journal of Catalysis</i> , 1986, 100, 149-157.	6.2	6
92	Kinetic modelling of the deactivation of a commercial silica-alumina catalyst during isopropylbenzene cracking. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1995, 58, 7-13.	0.1	6
93	Epoxidation of electron-deficient alkenes using heterogeneous basic catalysts. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 1673-1678.	1.5	6
94	Ultra-Fast Biomass Pyrolysis in a High-Temperature (2200°C), Fluid-Wall Reactor. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1988, 110, 10-13.	1.8	5
95	Simultaneous Activation and Deactivation Phenomena in Isopropyl Alcohol Dehydrogenation on a Cu/SiO ₂ Catalyst. <i>Studies in Surface Science and Catalysis</i> , 1991, , 391-398.	1.5	5
96	Preparation and characterisation of Ni-Mg-Al hydrotalcites as hydrogenation catalysts. <i>Studies in Surface Science and Catalysis</i> , 2000, , 2099-2104.	1.5	5
97	Hydrogen and CNT Production by Methane Cracking Using Ni-Cu and Co-Cu Catalysts Supported on Argan-Derived Carbon. <i>ChemEngineering</i> , 2022, 6, 47.	2.4	5
98	Hydrogen Production by Catalytic Cracking of Methane Using Ni-Al ₂ O ₃ Catalysts. Influence of the Operating Conditions. <i>Studies in Surface Science and Catalysis</i> , 2001, , 391-398.	1.5	4
99	Influence of the catalyst pretreatment on the relative rates of the main and coking reactions during acetylene hydrogenation on a NiO/NiAl ₂ O ₄ catalyst. <i>Studies in Surface Science and Catalysis</i> , 1994, 88, 555-560.	1.5	3
100	Acetylene hydrogenation with a modified Ni-Zn-Al catalyst. Influence of the operating conditions on the coking rate. <i>Studies in Surface Science and Catalysis</i> , 1999, 126, 113-120.	1.5	3
101	Synthesis of Nickel Nanoparticles Supported on Carbon Using a Filter Paper as Biomorphic Pattern for Application in Catalysis. <i>Materials Research</i> , 2015, 18, 1278-1283.	1.3	3
102	Effect of thermal aging upon the regeneration kinetics of a coked Cr ₂ O ₃ -Al ₂ O ₃ catalyst. <i>Thermochimica Acta</i> , 1996, 274, 249-259.	2.7	2
103	Deactivation by sintering and coking of Sol-Gel NiO-Al ₂ O ₃ -TiO ₂ hydrogenation catalysts. <i>Studies in Surface Science and Catalysis</i> , 1997, 111, 609-616.	1.5	2
104	Deactivation of bulk iron oxide catalysts during methane combustion. <i>Studies in Surface Science and Catalysis</i> , 2001, 139, 487-494.	1.5	2
105	Effect of the Operating Conditions on the Growth of Carbonaceous Nanomaterials over Stainless Steel Foams. <i>Kinetic and Characterization Studies. International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	1.1	2
106	Thioresistance of Reforming Catalysts in the Presence of Coking. <i>Studies in Surface Science and Catalysis</i> , 1991, , 581-584.	1.5	1
107	Effect of preparation method and support on the deactivation of nickel catalysts by carbon deposition. <i>Studies in Surface Science and Catalysis</i> , 1994, , 531-536.	1.5	1
108	Deactivation by sintering of Ni/TiO ₂ and Ni/TiO ₂ -Al ₂ O ₃ sol-gel hydrogenation catalysts. <i>Studies in Surface Science and Catalysis</i> , 1999, 126, 477-480.	1.5	1

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109	Kinetics of catalyst regeneration by coke combustion. II. Influence of temperature rise in the catalyst particles. <i>Reaction Kinetics and Catalysis Letters</i> , 1991, 44, 279-285.	0.6	0
110	Deactivation of Ni supported on alumina-titania: Modelling of coke deposition in the phenylacetylene hydrogenation. <i>Studies in Surface Science and Catalysis</i> , 1999, 126, 439-442.	1.5	0