Gianguido Ramis

List of Publications by Year in descending order

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95 papers	7,472 citations	70961 41 h-index	51492 86 g-index
99 all docs	99 docs citations	99 times ranked	5617 citing authors

#	Article	IF	Citations
1	Chemical and mechanistic aspects of the selective catalytic reduction of NO by ammonia over oxide catalysts: A review. Applied Catalysis B: Environmental, 1998, 18, 1-36.	10.8	1,981
2	Fourier transform-infrared study of the adsorption and coadsorption of nitric oxide, nitrogen dioxide and ammonia on vanadia-titania and mechanism of selective catalytic reduction. Applied Catalysis, 1990, 64, 259-278.	1.1	405
3	Characterization and Reactivity of V2O5â€“MoO3/TiO2 De-NOx SCR Catalysts. Journal of Catalysis, 1999, 187, 419-435.	3.1	326
4	An FT-IR study of ammonia adsorption and oxidation over anatase-supported metal oxides. Applied Catalysis B: Environmental, 1997, 13, 45-58.	10.8	292
5	Fourier transform infrared study of the adsorption and coadsorption of nitric oxide, nitrogen dioxide and ammonia on TiO2 anatase. Applied Catalysis, 1990, 64, 243-257.	1.1	223
6	An FT-IR study of the adsorption of urea and ammonia over V2O5â€“MoO3â€“TiO2 SCR catalysts. Applied Catalysis B: Environmental, 2000, 27, L145-L151.	10.8	222
7	FT Raman and FTIR studies of titanias and metatitanate powders. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3181.	1.7	199
8	Surface sites on spinel-type and corundum-type metal oxide powders. Langmuir, 1993, 9, 1492-1499.	1.6	180
9	Characterization and composition of commercial V2O5&z.sbnd;WO3&z.sbnd;TiO2 SCR catalysts. Applied Catalysis B: Environmental, 1996, 10, 299-311.	10.8	161
10	Catalytic abatement of NOx: Chemical and mechanistic aspects. Catalysis Today, 2005, 107-108, 139-148.	2.2	150
11	An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe2O3-TiO2 SCR catalysts. Applied Catalysis B: Environmental, 2001, 30, 101-110.	10.8	147
12	Chemical, structural and mechanistic aspects on NOx SCR over commercial and model oxide catalysts. Catalysis Today, 1998, 42, 101-116.	2.2	129
13	Hydrogen production by ethanol steam reforming over Ni catalysts derived from hydrotalcite-like precursors: Catalyst characterization, catalytic activity and reaction path. Applied Catalysis A: General, 2009, 355, 83-93.	2.2	127
14	Nickel versus cobalt catalysts for hydrogen production by ethanol steam reforming: Niâ€“Coâ€“Znâ€“Al catalysts from hydrotalcite-like precursors. International Journal of Hydrogen Energy, 2010, 35, 5356-5366.	3.8	125
15	Ni/SiO2 and Ni/ZrO2 catalysts for the steam reforming of ethanol. Applied Catalysis B: Environmental, 2012, 117-118, 384-396.	10.8	114
16	Potassium doping of vanadia/titania de-NOxing catalysts: Surface characterisation and reactivity study. Applied Catalysis B: Environmental, 1993, 3, 13-35.	10.8	106
17	FT-IR study of the surface properties of polycrystalline vanadia. Journal of Molecular Catalysis, 1989, 50, 231-240.	1.2	101
18	An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe2O3/Al2O3 SCR catalysts. Journal of Molecular Catalysis A, 2004, 215, 161-167.	4.8	100

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19	Bulk and surface properties of commercial kaolins. Applied Clay Science, 2010, 48, 446-454.	2.6	92
20	A study of anataseâ€“supported Mn oxide as catalysts for 2-propanol oxidation. Applied Catalysis B: Environmental, 1999, 22, 249-259.	10.8	90
21	Thermal stability of vanadiaâ€“titania catalysts. Journal of Materials Chemistry, 1993, 3, 1239-1249.	6.7	89
22	Cobaltâ€“silicon mixed oxide nanocomposites by modified solâ€“gel method. Journal of Solid State Chemistry, 2007, 180, 3341-3350.	1.4	83
23	On the effect of dopants and additives on the state of surface vanadyl centers of vanadia-titania catalysts. Catalysis Letters, 1993, 18, 299-303.	1.4	81
24	Structural effects on the adsorption of alcohols on titanium dioxides. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 1591.	1.0	80
25	Nickel Catalysts Supported Over TiO₂, SiO₂ and ZrO₂ for the Steam Reforming of Glycerol. ChemCatChem, 2013, 5, 294-306.	1.8	79
26	Silica and zirconia supported catalysts for the low-temperature ethanol steam reforming. Applied Catalysis B: Environmental, 2014, 150-151, 257-267.	10.8	79
27	Steam reforming of ethanol over Ni/MgAl2O4 catalysts. International Journal of Hydrogen Energy, 2019, 44, 952-964.	3.8	67
28	Zincâ€“aluminum hydrotalcites as precursors of basic catalysts: Preparation, characterization and study of the activation of methanol. Catalysis Today, 2010, 152, 104-109.	2.2	66
29	Redox and acid reactivity of wolframyl centers on oxide carriers: BrÃ¸nsted, Lewis and redox sites. Applied Catalysis A: General, 2001, 216, 181-194.	2.2	64
30	Conversion of 1-butene over WO3-TiO2 Catalysts. Applied Catalysis A: General, 1994, 107, 249-266.	2.2	58
31	Characterization of the surface properties of polycrystalune WO3. Journal of Molecular Catalysis, 1990, 61, 319-331.	1.2	57
32	Surface Chemistry and Structure of Ultrafine Silicon Carbide: An FT-IR Study. Journal of the American Ceramic Society, 1989, 72, 1692-1697.	1.9	53
33	FT-i.r. study of molecular interactions of olefins with oxide surfaces. Spectrochimica Acta Part A: Molecular Spectroscopy, 1987, 43, 489-496.	0.1	51
34	Ammonia Adsorption and Oxidation on Cu/Mg/Al Mixed Oxide Catalysts PreparedviaHydrotalcite-Type Precursors. Langmuir, 1997, 13, 4628-4637.	1.6	51
35	Ethylene production via catalytic dehydration of diluted bioethanol: A step towards an integrated biorefinery. Applied Catalysis B: Environmental, 2017, 210, 407-420.	10.8	49
36	A study on catalytic combustion of chlorobenzenes. Catalysis Today, 2011, 169, 3-9.	2.2	48

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37	Reaction path of ethanol and acetic acid steam reforming over Niâ€“Znâ€“Al catalysts. Flow reactor studies. Chemical Engineering Journal, 2009, 153, 43-49.	6.6	47
38	TiO2-supported catalysts for the steam reforming of ethanol. Applied Catalysis A: General, 2014, 477, 42-53.	2.2	46
39	An FT-IR and flow reactor study of the selective catalytic oxy-dehydrogenation of C3 alcohols on Mn3O4. Applied Catalysis A: General, 1998, 166, 75-88.	2.2	45
40	Hydrogen storage over metal-doped activated carbon. International Journal of Hydrogen Energy, 2015, 40, 7609-7616.	3.8	44
41	Preferential CO oxidation (CO-PROX) over CuO-ZnO/TiO2 catalysts. Applied Catalysis A: General, 2008, 344, 165-174.	2.2	43
42	FTIR spectra of adsorbed n-butylamine. Journal of Molecular Structure, 1989, 193, 93-100.	1.8	41
43	Hydrogen from alcohols: IR and flow reactor studies. Catalysis Today, 2009, 143, 2-8.	2.2	41
44	Redox properties of Co- and Cu-based catalysts for the steam reforming of ethanol. International Journal of Hydrogen Energy, 2013, 38, 3213-3225.	3.8	41
45	High Pressure Photoreduction of CO2: Effect of Catalyst Formulation, Hole Scavenger Addition and Operating Conditions. Catalysts, 2018, 8, 430.	1.6	41
46	Gel derived niobiumâ€“silicon mixed oxides: Characterization and catalytic activity for cyclooctene epoxidation. Applied Catalysis A: General, 2008, 347, 179-185.	2.2	37
47	Design of efficient photocatalytic processes for the production of hydrogen from biomass derived substrates. International Journal of Hydrogen Energy, 2021, 46, 12105-12116.	3.8	36
48	High pressure CO2 photoreduction using Au/TiO2: unravelling the effect of co-catalysts and of titania polymorphs. Catalysis Science and Technology, 2019, 9, 2253-2265.	2.1	34
49	An FTIR study of the dispersed Ni species on Ni-YSZ catalysts. Applied Catalysis A: General, 2009, 353, 137-143.	2.2	32
50	Surface acidity of the layered pyrophosphates of quadrivalent Ti, Zr, Ge, and Sn and their activity in some acid-catalysed reactions. Journal of the Chemical Society Dalton Transactions, 1988, , 881.	1.1	27
51	FT-IR study of the surface properties of K2O-TiO2. Applied Surface Science, 1986, 27, 114-126.	3.1	26
52	On the mechanism of the selective oxidation of C4 linear hydrocarbons to maleic anhydride: An FT-IR study of the adsorption and oxidation of 1,3-butadiene on vanadia-titania. Journal of Molecular Catalysis, 1989, 55, 1-11.	1.2	26
53	Syngas production via steam reforming of bioethanol over Niâ€“BEA catalysts: A BTL strategy. International Journal of Hydrogen Energy, 2016, 41, 16878-16889.	3.8	26
54	Photoreforming of Glucose over CuO/TiO2. Catalysts, 2020, 10, 477.	1.6	24

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55	Characterization of silicated anatase powders. Journal of Materials Chemistry, 1994, 4, 1755.	6.7	23
56	Photocatalytic Processes for the Abatement of N-Containing Pollutants from Waste Water. Part 1: Inorganic Pollutants. Journal of Nanoscience and Nanotechnology, 2017, 17, 3632-3653.	0.9	23
57	Catalytic and Photocatalytic Processes for the Abatement of N-Containing Pollutants from Wastewater. Part 2: Organic Pollutants. Journal of Nanoscience and Nanotechnology, 2017, 17, 3654-3672.	0.9	23
58	FT-IR Study of the Dispersion of the Supported Phase on MoO₃-TiO₂ Catalysts. Zeitschrift Fur Physikalische Chemie, 1987, 153, 189-200.	1.4	22
59	Innovative photoreactors for unconventional photocatalytic processes: the photoreduction of CO2 and the photo-oxidation of ammonia. Rendiconti Lincei, 2017, 28, 151-158.	1.0	22
60	Spectroscopic characterization of magnesium vanadate catalysts. Part 2.â€”FTIR study of the surface properties of pure and mixed-phase powders. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 1293-1299.	1.7	21
61	Ethylene production from diluted bioethanol solutions. Canadian Journal of Chemical Engineering, 2017, 95, 1752-1759.	0.9	21
62	Molecular level interactions in brushite-aminoacids composites. Materials Science and Engineering C, 2017, 70, 721-727.	3.8	21
63	Semiâ€Batch Photocatalytic Reduction of Nitrates: Role of Process Conditions and Coâ€Catalysts. ChemCatChem, 2019, 11, 4642-4652.	1.8	20
64	Adsorption and oligomerization of isobutene on oxide catalyst surfaces. A Fourier-transform infrared study. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 137.	1.0	19
65	FT-IR study of the interaction of magnesium ferrite with SO2. Catalysis Letters, 1994, 23, 353-360.	1.4	18
66	Influence of the Degradation Medium on Water Uptake, Morphology, and Chemical Structure of Poly(Lactic Acid)-Sisal Bio-Composites. Materials, 2020, 13, 3974.	1.3	17
67	Kinetic Modelling of Biodegradability Data of Commercial Polymers Obtained under Aerobic Composting Conditions. Eng, 2021, 2, 54-68.	1.2	17
68	FT-IR study of the reactivity of molybdenum oxide supported on titania. Applied Catalysis, 1987, 32, 305-313.	1.1	15
69	New Insights into the Role of the Synthesis Procedure on the Performance of Co-Based Catalysts for Ethanol Steam Reforming. Topics in Catalysis, 2018, 61, 1734-1745.	1.3	15
70	Conceptual design and feasibility assessment of photoreactors for solar energy storage. Solar Energy, 2018, 172, 225-231.	2.9	14
71	Surface Probing by Spectroscopy on Titania-Supported Gold Nanoparticles for a Photoreductive Application. Catalysts, 2018, 8, 623.	1.6	13
72	Rare Earths (La, Y, and Nd) Adsorption Behaviour towards Mineral Clays and Organoclays: Monoionic and Trionic Solutions. Minerals (Basel, Switzerland), 2021, 11, 30.	0.8	13

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73	Photocatalytic Selective Oxidation of Ammonia in a Semi-Batch Reactor: Unravelling the Effect of Reaction Conditions and Metal Co-Catalysts. Catalysts, 2021, 11, 209.	1.6	12
74	Photoreduction of nitrates from waste and drinking water. Materials Today: Proceedings, 2018, 5, 17404-17413.	0.9	11
75	FT-IR and FT-FIR studies of vanadium, molybdenum and tungsten oxides supported on different carriers. Mikrochimica Acta, 1988, 95, 57-61.	2.5	10
76	Synthesis and characterization of poly-l-leucine initialized and immobilized by rehydrated hydrotalcite: understanding stability and the nature of interaction. Physical Chemistry Chemical Physics, 2013, 15, 15645.	1.3	10
77	Process Intensification by Exploiting Diluted 2nd Generation Bio-ethanol in the Low-Temperature Steam Reforming Process. Topics in Catalysis, 2018, 61, 1832-1841.	1.3	10
78	Capture Mechanism of La and Cu Ions in Mixed Solutions by Clay and Organoclay. Industrial & Engineering Chemistry Research, 2021, 60, 6803-6813.	1.8	10
79	Metal Dispersion and Interaction with the Supports in the Coke Production Over Ethanol Steam Reforming Catalysts. , 2015, , 695-711.		10
80	Reduced Graphene Oxide Membranes as Potential Self-Assembling Filter for Wastewater Treatment. Minerals (Basel, Switzerland), 2021, 11, 15.	0.8	10
81	Effect of Metal Cocatalysts and Operating Conditions on the Product Distribution and the Productivity of the CO₂ Photoreduction. Industrial & Engineering Chemistry Research, 2022, 61, 2963-2972.	1.8	10
82	Capture and release mechanism of La ions by new polyamine-based organoclays: A model system for rare-earths recovery in urban mining process. Journal of Environmental Chemical Engineering, 2021, 9, 104730.	3.3	7
83	Catalytic, Photocatalytic, and Electrocatalytic Processes for the Valorization of CO2. Catalysts, 2019, 9, 765.	1.6	6
84	Low Metal Loading (Au, Ag, Pt, Pd) Photo-Catalysts Supported on TiO2 for Renewable Processes. Materials, 2022, 15, 2915.	1.3	6
85	Surface oxidation of high-surface-area silicon carbide: FT-IR studies. Mikrochimica Acta, 1988, 95, 75-77.	2.5	5
86	Quantification of â€œdeliveredâ€•H2 by a volumetric method to test H2 storage materials. International Journal of Hydrogen Energy, 2013, 38, 13309-13317.	3.8	5
87	FT-IR Study of Selective Oxidation Intermediates of Benzene on The Surface of Vanadia-Titania â€œMonolayerâ€•Catalysts. Studies in Surface Science and Catalysis, 1990, 55, 825-831.	1.5	4
88	Novel nanohybrid materials based on l-leucine on hydrotalcite clays: Asymmetric epoxidation reaction of chalcona. Catalysis Today, 2011, 172, 48-52.	2.2	4
89	Flame Pyrolysis Synthesis of Mixed Oxides for Glycerol Steam Reforming. Materials, 2021, 14, 652.	1.3	4
90	Photoreforming of model carbohydrate mixtures from pulping industry wastewaters. International Journal of Hydrogen Energy, 2022, , .	3.8	4

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91	Photo-Oxidation of Ammonia to Molecular Nitrogen in Water under UV, Vis and Sunlight Irradiation. Catalysts, 2021, 11, 975.	1.6	3
92	Photocatalytic Reduction of Nitrates and Combined Photodegradation with Ammonium. Catalysts, 2022, 12, 321.	1.6	3
93	Structured Monolithic Catalysts vs. Fixed Bed for the Oxidative Dehydrogenation of Propane. Materials, 2019, 12, 884.	1.3	2
94	Ni-Co-Zn-Al Catalysts From Hydrotalcite-Like Precursors for Hydrogen Production by Ethanol Steam Reforming. , 2010, , .		1
95	Feasibility Study of the Solar-Promoted Photoreduction of CO2 to Liquid Fuels with Direct or Indirect Use of Renewable Energy Sources. Energies, 2021, 14, 2804.	1.6	0