Fabien Can

List of Publications by Year
in descending order

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56	2,216	257450	223800
papers	citations	24 h-index	46 g-index

58	58	58	2972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perovskites as Substitutes of Noble Metals for Heterogeneous Catalysis: Dream or Reality. Chemical Reviews, 2014, 114, 10292-10368.	47.7	685
2	Lanthanum oxides for the selective synthesis of phytosterol esters: Correlation between catalytic and acidâ€“base properties. Journal of Catalysis, 2007, 251, 113-122.	6.2	93
3	Synthesis of oxide supported LaMnO3 perovskites to enhance yields in toluene combustion. Applied Catalysis B: Environmental, 2016, 180, 29-37.	20.2	77
4	Composition-Dependent Performance of Ce_xZr_{1â€“x}O₂ Mixed-Oxide-Supported WO₃ Catalysts for the NO_x Storage Reductionâ€“Selective Catalytic Reduction Coupled Process. ACS Catalysis, 2013, 3, 1120-1132.	11.2	74
5	Preparation and characterization of bimetallic Rh-Ni/Y2O3-Al2O3 for hydrogen production by raw bioethanol steam reforming: influence of the addition of nickel on the catalyst performances and stability. Applied Catalysis B: Environmental, 2010, 97, 72-81.	20.2	70
6	Hydrogen production from raw bioethanol steam reforming: Optimization of catalyst composition with improved stability against various impurities. International Journal of Hydrogen Energy, 2010, 35, 5015-5020.	7.1	64
7	An overview of the production and use of ammonia in NSR+SCR coupled system for NOx reduction from lean exhaust gas. Catalysis Today, 2012, 197, 144-154.	4.4	62
8	NOx Selective Catalytic Reduction (NO_x-SCR) by Urea: Evidence of the Reactivity of HNCO, Including a Specific Reaction Pathway for NOx Reduction Involving NO + NO₂. ACS Catalysis, 2016, 6, 4064-4067.	11.2	54
9	NOx storage and reduction properties of Pt/CexZr1â^'xO2 mixed oxides: Sulfur resistance and regeneration, and ammonia formation. Applied Catalysis B: Environmental, 2009, 93, 12-21.	20.2	51
10	Tungsten-Based Catalysts for Environmental Applications. Catalysts, 2021, 11, 703.	3.5	49
11	Adsorption and Desorption of a Model Hydrocarbon Mixture Over HY Zeolite Under Dry and Wet Conditions. Journal of Physical Chemistry C, 2015, 119, 315-331.	3.1	48
12	New Active and Selective Rhâ^'REOxâ^'Al2O3 Catalysts for Ethanol Steam Reforming. Journal of Physical Chemistry C, 2008, 112, 14145-14153.	3.1	47
13	Evolution of unburnt hydrocarbons under â€œcold-startâ€•conditions from adsorption/desorption to conversion: On the screening of zeolitic materials. Applied Catalysis B: Environmental, 2014, 158-159, 48-59.	20.2	47
14	High-surface-area zinc aluminate supported silver catalysts for low-temperature SCR of NO with ethanol. Applied Catalysis B: Environmental, 2012, 126, 275-289.	20.2	45
15	FTIR study of unsupported molybdenum sulfide?in situ synthesis and surface properties characterization. Applied Catalysis A: General, 2004, 268, 189-197.	4.3	43
16	FCC gasoline sulfur reduction additives: Mechanism and active sites. Journal of Catalysis, 2007, 249, 79-92.	6.2	41
17	The role of preparation route upon the ambient pressure ammonia synthesis activity of Ni2Mo3N. Applied Catalysis A: General, 2015, 504, 44-50.	4.3	38
18	Remarkable enhancement of the selective catalytic reduction of NO at low temperature by collaborative effect of ethanol and NH3 over silver supported catalyst. Applied Catalysis B: Environmental, 2018, 220, 19-30.	20.2	38

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19	Influence of Na, P and (Naâ€‰+â€‰P) poisoning on a model copper-ferrierite NH3-SCR catalyst. Applied Catalysis B: Environmental, 2019, 250, 355-368.	20.2	38
20	NOx removal efficiency and ammonia selectivity during the NOx storage-reduction process over Pt/BaO(Fe, Mn, Ce)/Al2O3 model catalysts. Part I: Influence of Fe and Mn addition. Applied Catalysis B: Environmental, 2011, 102, 353-361.	20.2	36
21	NOx removal efficiency and ammonia selectivity during the NOx storage-reduction process over Pt/BaO(Fe, Mn, Ce)/Al2O3 model catalysts. Part II: Influence of Ce and Mnâ€“Ce addition. Applied Catalysis B: Environmental, 2011, 102, 362-371.	20.2	36
22	Effect of reducing agent (C3H6, CO, H2) on the NOx conversion and selectivity during representative lean/rich cycles over monometallic platinum-based NSR catalysts. Influence of the support formulation. Applied Catalysis B: Environmental, 2014, 146, 12-23.	20.2	29
23	Platinum Supported Catalysts: Predictive CO and H₂ Chemisorption by a Statistical Cuboctahedron Cluster Model. Journal of Physical Chemistry C, 2016, 120, 26374-26385.	3.1	27
24	Surface properties and thermal stability of SiO2-crystalline TiO2 nano-composites. Journal of Materials Chemistry, 2010, 20, 9205.	6.7	26
25	Remarkable Enhancement of O₂ Activation on Yttriumâ€Stabilized Zirconia Surface in a Dual Catalyst Bed. Angewandte Chemie - International Edition, 2014, 53, 11342-11345.	13.8	25
26	Synthesis and characterization of high surface area TiO2/SiO2 mesostructured nanocomposite. Solid State Sciences, 2010, 12, 1002-1012.	3.2	23
27	Infrared investigation on surface properties of alumina obtained using recent templating routes. Microporous and Mesoporous Materials, 2012, 158, 88-98.	4.4	22
28	The influence of pre-treatment gas mixture upon the ammonia synthesis activity of Coâ€“Re catalysts. Catalysis Communications, 2015, 68, 53-57.	3.3	22
29	NOx storage properties of Pt/Ba/Al model catalysts prepared by different methods. Applied Catalysis B: Environmental, 2008, 84, 514-523.	20.2	21
30	Understanding the role of C3H6, CO and H2 on efficiency and selectivity of NOx storage reduction (NSR) process. Catalysis Today, 2012, 189, 70-76.	4.4	19
31	Composition dependent performance of alumina-based oxide supported WO3 catalysts for the NH3-SCR reaction and the NSR+SCR coupled process. Catalysis Today, 2015, 257, 41-50.	4.4	17
32	Insight into the praseodymium effect on the NH3-SCR reaction pathways over W or Nb supported ceria-zirconia based catalysts. Applied Catalysis B: Environmental, 2021, 298, 120563.	20.2	17
33	Biofuel Impact on Diesel Engine After-Treatment: Deactivation Mechanisms and Soot Reactivity. Emission Control Science and Technology, 2018, 4, 15-32.	1.5	16
34	A study of the ammonia selectivity on Pt/BaO/Al2O3 model catalyst during the NOx storage and reduction process. Catalysis Today, 2011, 176, 424-428.	4.4	15
35	A Study of the NOx Selective Catalytic Reduction with Ethanol and Its By-products. Topics in Catalysis, 2013, 56, 94-103.	2.8	15
36	Palladium, Iridium, and Rhodium Supported Catalysts: Predictive H2 Chemisorption by Statistical Cuboctahedron Clusters Model. Materials, 2018, 11, 819.	2.9	14

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37	Waste-free scale up synthesis of nanocrystalline hexaaluminate: properties in oxygen transfer and oxidation reactions. CrystEngComm, 2012, 14, 7733.	2.6	13
38	Ionic Liquidâ€Mediated Î±â€Fe₂O₃ Shapeâ€Controlled Nanocrystalâ€Supported Noble Metals: Highly Active Materials for CO Oxidation. ChemCatChem, 2013, 5, 1978-1988.	3.7	13
39	Direct Comparison of Urea-SCR and NH3-SCR Activities Over Acidic Oxide and Exchanged Zeolite Prototype Powdered Catalysts. Topics in Catalysis, 2016, 59, 938-944.	2.8	13
40	Investigation of Methane Oxidation Reactions Over a Dualâ€Bed Catalyst System using ¹⁸O Labelled DRIFTS coupling. ChemSusChem, 2017, 10, 210-219.	6.8	13
41	Role of the alumina surface properties on the ammonia production during the NOx SCR with ethanol over Ag/Al2O3 catalysts. Catalysis Today, 2011, 164, 474-479.	4.4	12
42	Influence of Mn and Fe Addition on the NO x Storageâ€“Reduction Properties and SO2 Poisoning of a Pt/Ba/Al2O3 Model Catalyst. Topics in Catalysis, 2009, 52, 1771-1775.	2.8	11
43	FT-IR spectroscopy study of HNCO adsorption and hydrolysis over oxide-based samples dedicated to deNO x processes. Applied Catalysis A: General, 2018, 552, 147-153.	4.3	11
44	IR Study of the Adsorption and Isotopic Scrambling of Thiophene on CaO. Journal of Physical Chemistry B, 2003, 107, 8578-8587.	2.6	10
45	Use of a Âµ-Scale Synthetic Gas Bench for Direct Comparison of Urea-SCR and NH3-SCR Reactions over an Oxide Based Powdered Catalyst. Catalysts, 2015, 5, 1535-1553.	3.5	10
46	Influence of the Sodium Impregnation Solvent on the Deactivation of Cu/FER-Exchanged Zeolites Dedicated to the SCR of NOx with NH3. Catalysts, 2018, 8, 3.	3.5	10
47	Study of Lanthanum Manganate and Yttriumâ€Stabilized Zirconiaâ€Supported Palladium Dualâ€Bed Catalyst System for the Total Oxidation of Methane: A Study by ¹⁸O₂/¹⁶O₂ Isotopic Exchange. ChemCatChem, 2016, 8, 1921-1928.	3.7	9
48	Enhancement of Oxygen Activation and Mobility in CaTi_xFe_{1â^’x}O_{3â^’Î´} Oxides. ChemCatChem, 2017, 9, 2095-2098.	3.7	9
49	From the powder to the honeycomb. A comparative study of the NSR efficiency and selectivity over Ptâ€“CeZr based active phase. Catalysis Today, 2015, 241, 125-132.	4.4	7
50	Transition metal oxides for combustion and depollution processes. , 2018, , 287-353.		6
51	Influence of Sodium and/or Phosphorus Addition on the Deactivation of Cu-FER Zeolites for SCR of NOx with NH3. Topics in Catalysis, 2019, 62, 72-78.	2.8	5
52	Selective catalytic reduction of NO at low temperature using a (ethanol+ammonia) mixture over a Ag/Al2O3 + WO3/Cex-ZryO2 dual-bed catalytic system: Reactivity insight of WO3/Cex-ZryO2. Catalysis Today, 2020, 355, 375-384.	4.4	5
53	Study of the remarkable reactivity of HNCO/urea with NO₂ in the NO_x SCR by urea process over an oxide-based catalyst. Catalysis Science and Technology, 2017, 7, 5457-5465.	4.1	4
54	Lean NOx Removal by a Bifunctional (EtOHâ€‰+â€‰NH3) Mixture Dedicated to (Ag/Al2O3â€‰+â€‰NH3-SCR) Dual-Bed Catalytic System: Comparison Between WO3/CeZrO2 and Cuâ€“FER as NH3-SCR Catalyst. Topics in Catalysis, 2019, 62, 79-85.	2.8	2

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55	NSRâ€“SCR Combined Systems: Production and Use of Ammonia. Fundamental and Applied Catalysis, 2014, , 587-622.	0.9	1
56	Competitive Adsorption of NOx and Ozone on the Catalyst Surface of Ozone Converters. Catalysts, 2022, 12, 738.	3.5	0