Enrico Tronconi

List of Publications by Year in Descending Order

285 papers	12,598 citations	63 h-index	99 g-index
300 ext. papers	13,751 ext. citations	6 avg, IF	6.45 L-index

#	Paper	IF	Citations
285	Transient kinetic analysis of passive SCR systems for NH3 abatement from natural gas fueled heavy duty engines over dual-layer ASC catalysts: An experimental and modelling study. *Applied Catalysis B: Environmental*, **2022**, 313, 121448	21.8	0
284	Dual-layer AdSCR monolith catalysts: a new solution for NOx emissions control in cold start applications. *Applied Catalysis B: Environmental*, **2022**, 121544	21.8	1
283	AdSCR Systems (Adsorption + Selective Catalytic Reduction): Analysis of the Influence of H2O and CO2 on Low Temperature NOx Emission Reduction Performances. *Emission Control Science and Technology*, **2021**, 7, 223	2	1
282	Transient Kinetic Analysis of Low-Temperature NH3-SCR over Cu-CHA Catalysts Reveals a Quadratic Dependence of Cu Reduction Rates on CuII. *ACS Catalysis*, **2021**, 11, 4821-4831	13.1	17
281	Rich H2 catalytic oxidation as a novel methodology for the evaluation of mass transport properties of 3D printed catalyst supports. *Catalysis Today*, **2021**, 383, 123-123	5.3	4
280	The H2O Effect on Cu Speciation in Cu-CHA-Catalysts for NH3-SCR Probed by NH3 Titration. *Catalysts*, **2021**, 11, 759	4	3
279	A Fundamental Investigation of Gas/Solid Heat and Mass Transfer in Structured Catalysts Based on Periodic Open Cellular Structures (POCS). *Industrial & Engineering Chemistry Research*, **2021**, 60, 10522-10538	3.9	5
278	H2 production by methane steam reforming over Rh/Al2O3 catalyst packed in Cu foams: A strategy for the kinetic investigation in concentrated conditions. *Catalysis Today*, **2021**, 387, 107-107	5.3	2
277	Heat transfer intensification with packed open-cell foams in TSA processes for CO2 capture. *Chemical Engineering Journal*, **2021**, 131000	14.7	1
276	Mechanistic insight in NO trapping on Pd/Chabazite systems for the low-temperature NOx removal from Diesel exhausts. *Applied Catalysis B: Environmental*, **2021**, 284, 119724	21.8	11
275	Periodic open cellular structures (POCS) as enhanced catalyst supports: Optimization of the coating procedure and analysis of mass transport. *Applied Catalysis B: Environmental*, **2021**, 283, 119651	21.8	6
274	Packed-POCS with skin: A novel concept for the intensification of non-adiabatic catalytic processes demonstrated in the case of the Fischer-Tropsch synthesis. *Catalysis Today*, **2021**,	5.3	1
273	On the Redox Mechanism of Low-Temperature NH3-SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. *Angewandte Chemie*, **2021**, 133, 7273-7280	3.6	6
272	On the Redox Mechanism of Low-Temperature NH -SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. *Angewandte Chemie - International Edition*, **2021**, 60, 7197-7204	16.4	24
271	Unraveling the Hydrolysis of Z2Cu2+ to ZCu2+(OH)□ and Its Consequences for the Low-Temperature Selective Catalytic Reduction of NO on Cu-CHA Catalysts. *ACS Catalysis*, **2021**, 11, 11616-11625	13.1	9
270	Low-T CO Oxidation over Cu□CHA Catalysts in Presence of NH3: Probing the Mobility of CuII Ions and the Role of Multinuclear CuII Species. *ChemCatChem*, **2020**, 12, 3843-3848	5.2	14
269	Investigation of packed conductive foams as a novel reactor configuration for methane steam reforming. *Chemical Engineering Journal*, **2020**, 391, 123494	14.7	19

268	Adoption of 3D printed highly conductive periodic open cellular structures as an effective solution to enhance the heat transfer performances of compact Fischer-Tropsch fixed-bed reactors. *Chemical Engineering Journal*, **2020**, 386, 123988	14.7	25
267	Unexpected Low-Temperature deNOx Activity of AdSCR Systems for Cold Start NOx Abatement. *Emission Control Science and Technology*, **2020**, 6, 402-409	2	4
266	Analysis of the effective thermal conductivity of isotropic and anisotropic Periodic Open Cellular Structures for the intensification of catalytic processes. *Chemical Engineering and Processing: Process Intensification*, **2020**, 158, 108169	3.7	10
265	Packed Periodic Open Cellular Structures an Option for the Intensification of Non-Adiabatic Catalytic Processes. *Chemical Engineering and Processing: Process Intensification*, **2020**, 155, 108057	3.7	8
264	An experimental and modelling study of the reactivity of adsorbed NH3 in the low temperature NH3-SCR reduction half-cycle over a Cu-CHA catalyst. *Applied Catalysis B: Environmental*, **2020**, 279, 119397	21.8	31
263	Synergy of vanadia and ceria in the reaction mechanism of low-temperature selective catalytic reduction of NOx by NH3. *Journal of Catalysis*, **2020**, 391, 145-154	7.3	17
262	Production and characterization of copper periodic open cellular structures made by 3D printing-replica technique. *Journal of Advanced Manufacturing and Processing*, **2020**, 2, e10068	2.7	2
261	On the passivation of platinum promoted cobalt-based Fischer-Tropsch catalyst. *Catalysis Today*, **2020**, 342, 79-87	5.3	5
260	Packed foams for the intensification of catalytic processes: assessment of packing efficiency and pressure drop using a combined experimental and numerical approach. *Chemical Engineering Journal*, **2020**, 382, 122801	14.7	23
259	Speciation of Cu Cations in Cu-CHA Catalysts for NH3-SCR: Effects of SiO2/AlO3 Ratio and Cu-Loading Investigated by Transient Response Methods. *ACS Catalysis*, **2019**, 9, 8916-8927	13.1	50
258	Analysis of AdSCR Systems for NOx Removal During the Cold-Start Period of Diesel Engines. *Topics in Catalysis*, **2019**, 62, 3-9	2.3	5
257	Catalyst systems for selective catalytic reduction + NOx trapping: from fundamental understanding of the standard SCR reaction to practical applications for lean exhaust after-treatment. *Reaction Chemistry and Engineering*, **2019**, 4, 1165-1178	4.9	16
256	A comparison between washcoated and packed copper foams for the intensification of methane steam reforming. *Reaction Chemistry and Engineering*, **2019**, 4, 1387-1392	4.9	17
255	The deactivation of an NH3-SCR Cu-SAPO catalyst upon exposure to non-oxidizing conditions. *Applied Catalysis A: General*, **2019**, 580, 11-16	5.1	2
254	Structured Catalysts-Based on Open-Cell Metallic Foams for Energy and Environmental Applications. *Studies in Surface Science and Catalysis*, **2019**, 303-327	1.8	3
253	Electrodeposition of CeO2 and Pd-CeO2 on small pore size metallic foams: Selection of deposition parameters. *Catalysis Today*, **2019**, 334, 37-47	5.3	10
252	Effect of the NH4NO3 Addition on the Low-T NH3-SCR Performances of Individual and Combined Fe- and Cu-Zeolite Catalysts. *Emission Control Science and Technology*, **2019**, 5, 290-296	2	5
251	The pivotal role of an interconnected cellular conductive structure to manage heat removal in compact Fischer Tropsch fixed-bed reactors. *Reaction Chemistry and Engineering*, **2019**, 4, 1917-1921	4.9	2

250	The Catalytic Challenges of Implementing a Euro VI Heavy Duty Emissions Control System for a Dedicated Lean Operating Natural Gas Engine. *Topics in Catalysis*, **2019**, 62, 273-281	2.3	9
249	Investigation of pressure drop in 3D replicated open-cell foams: Coupling CFD with experimental data on additively manufactured foams. *Chemical Engineering Journal*, **2019**, 377, 120123	14.7	34
248	An efficient reduced model of NH3-SCR converters for mobile aftertreatment systems. *Chemical Engineering Journal*, **2019**, 377, 120053	14.7	9
247	A PGM-free NOx adsorber + selective catalytic reduction catalyst system (AdSCR) for trapping and reducing NOx in lean exhaust streams at low temperature. *Catalysis Science and Technology*, **2018**, 8, 2467-2476	5.5	17
246	Highly Conductive Structured Catalysts for the Intensification of Methanol Synthesis in Multitubular Reactors **2018**, 519-538		1
245	Modelling the Hydrothermal Ageing of a Fe-Zeolite Catalyst for Automotive NH3-SCR Applications. *Chemie-Ingenieur-Technik*, **2018**, 90, 803-815	0.8	6
244	A fundamental analysis of the influence of the geometrical properties on the effective thermal conductivity of open-cell foams. *Chemical Engineering and Processing: Process Intensification*, **2018**, 129, 181-189	3.7	50
243	Cost-Efficient Aluminum Open-Cell Foams: Manufacture, Characterization, and Heat Transfer Measurements. *Advanced Engineering Materials*, **2018**, 20, 1701032	3.5	12
242	Novel method of ammonium nitrate quantification in SCR catalysts. *Catalysis Today*, **2018**, 307, 48-54	5.3	21
241	One-step electrodeposition of Pd□CeO2 on high pore density foams for environmental catalytic processes. *Catalysis Science and Technology*, **2018**, 8, 4678-4689	5.5	18
240	Mechanistic Study of the NO + NH4NO3 Reaction on H- and Fe/H-BEA Zeolites Using 15N and 18O Labeled Species. *Topics in Catalysis*, **2018**, 61, 1967-1973	2.3	1
239	Intensifying heat transfer in Fischer-Tropsch tubular reactors through the adoption of conductive packed foams. *Chemical Engineering Journal*, **2018**, 349, 829-837	14.7	46
238	The Effect of CH4 on NH3-SCR Over Metal-Promoted Zeolite Catalysts for Lean-Burn Natural Gas Vehicles. *Topics in Catalysis*, **2018**, 61, 1974-1982	2.3	8
237	NO oxidation on Fe- and Cu-zeolites mixed with BaO/Al2O3: Free oxidation regime and relevance for the NH3-SCR chemistry at low temperature. *Applied Catalysis B: Environmental*, **2018**, 225, 324-331	21.8	27
236	The Influence of the Washcoat Deposition Process on High Pore Density Open Cell Foams Activation for CO Catalytic Combustion. *Catalysts*, **2018**, 8, 510	4	12
235	A fundamental investigation of gas/solid mass transfer in open-cell foams using a combined experimental and CFD approach. *Chemical Engineering Journal*, **2018**, 352, 558-571	14.7	39
234	Modelling Inhibition Effects of Short-Chain Hydrocarbons on a Small-Pore Cu-Zeolite NH3-SCR Catalyst. *Topics in Catalysis*, **2017**, 60, 214-219	2.3	3
233	A systematic procedure for the virtual reconstruction of open-cell foams. *Chemical Engineering Journal*, **2017**, 315, 608-620	14.7	29

232	The low-temperature interaction of NH3/NO/NO2+ O2 with Fe-ZSM-5 + BaO/Al2O3 and H-ZSM-5 + BaO/Al2O3: Influence of phase separation and relevance for the NH3-SCR chemistry. *Applied Catalysis B: Environmental*, **2017**, 206, 471-478	21.8	23
231	Improvement in activity and alkali resistance of a novel V-Ce(SO4)2/Ti catalyst for selective catalytic reduction of NO with NH3. *Applied Catalysis B: Environmental*, **2017**, 206, 449-460	21.8	82
230	A kinetic modeling study of NO oxidation over a commercial Cu-CHA SCR catalyst for diesel exhaust aftertreatment. *Catalysis Today*, **2017**, 297, 10-16	5.3	13
229	Development of a heat transport model for open-cell metal foams with high cell densities. *Chemical Engineering Journal*, **2017**, 321, 432-446	14.7	28
228	Analytical Geometrical Model of Open Cell Foams with Detailed Description of Strut-Node Intersection. *Chemie-Ingenieur-Technik*, **2017**, 89, 915-925	0.8	27
227	On the performance of a Co-based catalyst supported on modified Al2O3 during Fischer Tropsch synthesis in the presence of co-fed water. *Catalysis Science and Technology*, **2016**, 6, 6431-6440	5.5	19
226	Enhancing the Low-T NH3-SCR Activity of a Commercial Fe-Zeolite Catalyst by NH4NO3 Dosing: an Experimental and Modeling Study. *Emission Control Science and Technology*, **2016**, 2, 1-9	2	7
225	Exploiting the effects of mass transfer to boost the performances of Co/Al2O3 eggshell catalysts for the Fischer Tropsch synthesis. *Applied Catalysis A: General*, **2016**, 512, 36-42	5.1	15
224	Experimental study of the interaction between soot combustion and NH3-SCR reactivity over a Cu Zeolite SDPF catalyst. *Catalysis Today*, **2016**, 267, 110-118	5.3	26
223	Kinetics of low-temperature Fischer-Tropsch synthesis on cobalt catalysts: Are both slurry autoclave and tubular packed-bed reactors adequate to collect relevant data at lab-scale?. *Canadian Journal of Chemical Engineering*, **2016**, 94, 685-695	2.3	10
222	A System Simulation Study of the Enhanced-SCR Reaction. *Topics in Catalysis*, **2016**, 59, 913-918	2.3	2
221	Heat transfer performance of structured catalytic reactors packed with metal foam supports: Influence of wall coupling. *Catalysis Today*, **2016**, 273, 187-195	5.3	32
220	Highly conductive packed foams A new concept for the intensification of strongly endo- and exo-thermic catalytic processes in compact tubular reactors. *Catalysis Today*, **2016**, 273, 178-186	5.3	38
219	The Low Temperature Interaction of NO + O2 with a Commercial Cu-CHA Catalyst: A Chemical Trapping Study. *Topics in Catalysis*, **2016**, 59, 678-685	2.3	24
218	New Mechanistic Insights in the NH3-SCR Reactions at Low Temperature. *Topics in Catalysis*, **2016**, 59, 907-912	2.3	16
217	Structure Activity Relationship of Different Cu Zeolite Catalysts for NH3 SCR. *Topics in Catalysis*, **2016**, 59, 875-881	2.3	20
216	CFD modeling of catalytic reactions in open-cell foam substrates. *Computers and Chemical Engineering*, **2016**, 92, 55-63	4	42
215	Numerical simulation of heat transfer in the near-wall region of tubular reactors packed with metal open-cell foams. *Chemical Engineering Journal*, **2015**, 264, 268-279	14.7	43

214	A novel preparation method for small eggshell Co/Al2O3 catalysts: A promising catalytic system for compact Fischer Tropsch reactors. *Catalysis Today*, **2015**, 246, 125-132	5.3	20
213	In-situ DRIFTS measurements for the mechanistic study of NO oxidation over a commercial Cu-CHA catalyst. *Applied Catalysis B: Environmental*, **2015**, 166-167, 181-192	21.8	95
212	Investigation of NO2 and NO interaction with an Fe-ZSM-5 catalyst by transient response methods and chemical trapping techniques. *Journal of Catalysis*, **2015**, 328, 258-269	7.3	35
211	Interaction of NO x Reduction and Soot Oxidation in a DPF with Cu-Zeolite SCR Coating. *Emission Control Science and Technology*, **2015**, 1, 134-151	2	34
210	Kinetic and Modeling Study of the Ethylene Oxychlorination to 1,2-Dichloroethane in Fluidized-Bed Reactors. *Industrial & Engineering Chemistry Research*, **2015**, 54, 9513-9524	3.9	10
209	Methods for the catalytic activation of metallic structured substrates. *Catalysis Science and Technology*, **2014**, 4, 2846-2870	5.5	95
208	Identification of nitrites/HONO as primary products of NO oxidation over Fe-ZSM-5 and their role in the Standard SCR mechanism: A chemical trapping study. *Journal of Catalysis*, **2014**, 311, 266-270	7.3	74
207	Optimization of compact multitubular fixed-bed reactors for the methanol synthesis loaded with highly conductive structured catalysts. *Chemical Engineering Journal*, **2014**, 255, 257-265	14.7	33
206	Mathematical modelling of cold start effects over zeolite SCR catalysts for exhaust gas aftertreatment. *Catalysis Today*, **2014**, 231, 99-104	5.3	13
205	Structured catalysts for non-adiabatic applications. *Current Opinion in Chemical Engineering*, **2014**, 5, 55-67	5.4	98
204	Structured Catalytic Reactors for Selective Oxidations **2014**, 943-997		1
203	Heat Transfer Properties of Metal Foam Supports for Structured Catalytic Reactors. *Chemie-Ingenieur-Technik*, **2014**, 86, 1593-1593	0.8	
202	Washcoating and chemical testing of a commercial Cu/ZnO/Al2O3 catalyst for the methanol synthesis over copper open-cell foams. *Applied Catalysis A: General*, **2014**, 481, 96-103	5.1	34
201	Kinetics of NH3-SCR Reactions Over V2O5 WO3/TiO2 Catalyst. *Fundamental and Applied Catalysis*, **2014**, 273-310	1	2
200	The Role of NO2 in the NH3 SCR Catalytic Chemistry. *Fundamental and Applied Catalysis*, **2014**, 247-270	1	2
199	4th International conference on structured catalysts and reactors, ICOSCAR-4, Beijing, China, September 25 27, 2013. *Catalysis Today*, **2013**, 216, 1	5.3	1
198	Experimental Study of the NO Oxidation to NO2 Over Metal Promoted Zeolites Aimed at the Identification of the Standard SCR Rate Determining Step. *Topics in Catalysis*, **2013**, 56, 109-113	2.3	61
197	A Modeling Study of NH3 Slip Catalysts: Analysis of the SCR/PGM Interactions. *Topics in Catalysis*, **2013**, 56, 177-181	2.3	9

196	Experimental and Modelling Study of a Dual-Layer NH3 Slip Monolith Catalyst for Automotive SCR Aftertreatment Systems. *Topics in Catalysis*, **2013**, 56, 227-231	2.3	12
195	Heat transfer properties of metal foam supports for structured catalysts: Wall heat transfer coefficient. *Catalysis Today*, **2013**, 216, 121-134	5.3	76
194	Experimental and modeling study of a dual-layer (SCR+PGM) NH3 slip monolith catalyst (ASC) for automotive SCR aftertreatment systems. Part 1. Kinetics for the PGM component and analysis of SCR/PGM interactions. *Applied Catalysis B: Environmental*, **2013**, 142-143, 861-876	21.8	39
193	Accurate prediction of the effective radial conductivity of highly conductive honeycomb monoliths with square channels. *Chemical Engineering Journal*, **2013**, 223, 224-230	14.7	29
192	Enabling small-scale methanol synthesis reactors through the adoption of highly conductive structured catalysts. *Catalysis Today*, **2013**, 215, 176-185	5.3	43
191	Experimental and modeling study of a dual-layer (SCR + PGM) NH3 slip monolith catalyst (ASC) for automotive SCR after treatment systems. Part 2. Validation of PGM kinetics and modeling of the dual-layer ASC monolith. *Applied Catalysis B: Environmental*, **2013**, 142-143, 337-343	21.8	23
190	Cold Start Effect Phenomena over Zeolite SCR Catalysts for Exhaust Gas Aftertreatment. *SAE International Journal of Commercial Vehicles*, **2013**, 6, 190-199	1	28
189	Activation of metallic open-cell foams via washcoat deposition of Ni/MgAl2O4 catalysts for steam reforming reaction. *Catalysis Today*, **2012**, 197, 256-264	5.3	30
188	Detailed kinetic modeling of the NH3/NO/NO2 SCR reactions over a commercial Cu-zeolite catalyst for Diesel exhausts after treatment. *Catalysis Today*, **2012**, 197, 243-255	5.3	121
187	A kinetic analysis of the partial oxidation of C3H8 over a 2% Rh/Al2O3 catalyst in annular microreactor. *Catalysis Today*, **2012**, 197, 265-280	5.3	26
186	Experimental and modeling study of the impact of interphase and intraphase diffusional limitations on the DeNOx efficiency of a V-based extruded catalyst for NH 3 SCR of Diesel exhausts. *Chemical Engineering Journal*, **2012**, 207-208, 57-65	14.7	27
185	Modelling the ammonia adsorption–desorption process over an Fe-zeolite catalyst for SCR automotive applications. *Catalysis Today*, **2012**, 188, 42-52	5.3	50
184	An appraisal of the heat transfer properties of metallic open-cell foams for strongly exo-/endo-thermic catalytic processes in tubular reactors. *Chemical Engineering Journal*, **2012**, 198-199, 512-528	14.7	123
183	Conductive Monolithic Catalysts: Development and Industrial Pilot Tests for the Oxidation of o-Xylene to Phthalic Anhydride. *Industrial & Engineering Chemistry Research*, **2012**, 51, 7590-7596	3.9	33
182	FTIR in situ mechanistic study of the NH3NO/NO2 Fast SCR reaction over a commercial Fe-ZSM-5 catalyst. *Catalysis Today*, **2012**, 184, 107-114	5.3	85
181	Effect of operating variables on the enhanced SCR reaction over a commercial V2O5-WO3/TiO2 catalyst for stationary applications. *Catalysis Today*, **2012**, 184, 153-159	5.3	55
180	A simplified approach to modeling of dual-layer ammonia slip catalysts. *Chemical Engineering Science*, **2012**, 75, 75-83	4.4	33
179	NO/NO2/N2O-NH3 SCR reactions over a commercial Fe-zeolite catalyst for diesel exhaust aftertreatment: Intrinsic kinetics and monolith converter modelling. *Applied Catalysis B: Environmental*, **2012**, 111-112, 106-118	21.8	85

178	NO2 adsorption on Fe- and Cu-zeolite catalysts: The effect of the catalyst redox state. *Applied Catalysis B: Environmental*, **2012**, 111-112, 433-444	21.8	43
177	Development of chemically consistent models of NH3-SCR reactions over Fe-zeolite catalysts for the aftertreatment of Diesel engine exhausts. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 384-391		3
176	Kinetic Modeling of Dynamic Aspects of the Standard NH3-SCR Reaction Over V2O5-WO3/TiO2and Fe-Zeolite Commercial Catalysts for the Aftertreatment of Diesel Engines Exhausts. *Oil and Gas Science and Technology*, **2011**, 66, 681-691	1.9	13
175	The NH3 Inhibition Effect in the Standard SCR Reaction over a Commercial Fe-zeolite Catalyst for Diesel Exhaust Aftertreatment: An Experimental and Modeling Study. *SAE International Journal of Engines*, **2011**, 4, 1822-1838	2.4	16
174	Detailed Kinetics of the Fischer-Tropsch Synthesis on Cobalt Catalysts Based on H-Assisted CO Activation. *Topics in Catalysis*, **2011**, 54, 786-800	2.3	74
173	Monolithic catalysts with high thermal conductivity for the Fischer-Tropsch synthesis in tubular reactors. *Chemical Engineering Journal*, **2011**, 171, 1294-1307	14.7	83
172	Synergy of Homogeneous and Heterogeneous Chemistry Probed by In Situ Spatially Resolved Measurements of Temperature and Composition. *Angewandte Chemie*, **2011**, 123, 4029-4032	3.6	4
171	Synergy of homogeneous and heterogeneous chemistry probed by in situ spatially resolved measurements of temperature and composition. *Angewandte Chemie - International Edition*, **2011**, 50, 3943-6	16.4	42
170	Optimal design of a CH4 CPO-reformer with honeycomb catalyst: Combined effect of catalyst load and channel size on the surface temperature profile. *Catalysis Today*, **2011**, 171, 79-83	5.3	42
169	Influence of the Substrate Properties on the Performances of NH3-SCR Monolithic Catalysts for the Aftertreatment of Diesel Exhaust: An Experimental and Modeling Study. *Industrial & Engineering Chemistry Research*, **2011**, 50, 299-309	3.9	51
168	Microkinetic analysis of CH4 CPO tests with CO2-diluted feed streams. *Applied Catalysis A: General*, **2011**, 391, 350-359	5.1	13
167	Removal of NOx from Diesel Exhausts: The New Enhanced NH3-SCR Reaction. *SAE International Journal of Fuels and Lubricants*, **2010**, 3, 654-663	1.8	5
166	Nitrogen Oxides Removal Industrial **2010**,		4
165	Dynamic Methods in Catalytic Reaction Engineering: Applications to the Investigation of the NH3Selective Catalytic Reduction Reactions for Diesel Emission Control. *Industrial & Engineering Chemistry Research*, **2010**, 49, 10374-10385	3.9	18
164	Simulation of a structured catalytic reactor for exothermic methanation reactions producing synthetic natural gas. *Computer Aided Chemical Engineering*, **2010**, 691-696	0.6	16
163	Coating method for Ni/MgAl2O4 deposition on metallic foams. *Studies in Surface Science and Catalysis*, **2010**, 653-656	1.8	7
162	New Enhanced NH3-SCR Reaction for NOx Emission Control. *Industrial & Engineering Chemistry Research*, **2010**, 49, 10386-10391	3.9	59
161	Experimental and theoretical study of gas/solid mass transfer in metallic filters as supports for micro-structured catalysts. *Chemical Engineering Science*, **2010**, 65, 392-397	4.4	14

160	Microkinetic modeling of spatially resolved autothermal CH4 catalytic partial oxidation experiments over Rh-coated foams. *Journal of Catalysis*, **2010**, 275, 270-279	7.3	73
159	A comparative study of the NH3-SCR reactions over a Cu-zeolite and a Fe-zeolite catalyst. *Catalysis Today*, **2010**, 151, 223-230	5.3	229
158	Diesel NOx aftertreatment catalytic technologies: Analogies in LNT and SCR catalytic chemistry. *Catalysis Today*, **2010**, 151, 202-211	5.3	93
157	Detailed kinetics of the Fischer–Tropsch synthesis over Co-based catalysts containing sulphur. *Catalysis Today*, **2010**, 154, 202-209	5.3	26
156	Ammonia blocking of the "fast SCR" reactivity over a commercial Fe-zeolite catalyst for Diesel exhaust aftertreatment. *Journal of Catalysis*, **2009**, 265, 141-147	7.3	143
155	Unifying redox kinetics for standard and fast NH3-SCR over a V2O5-WO3/TiO2 catalyst. *AICHE Journal*, **2009**, 55, 1514-1529	3.6	53
154	A C1 microkinetic model for methane conversion to syngas on Rh/Al2O3. *AICHE Journal*, **2009**, 55, 993-1008	3.6	83
153	Enhanced NH3 Selective Catalytic Reduction for NOx Abatement. *Angewandte Chemie*, **2009**, 121, 8516-8518	3.6	57
152	Enhanced NH3 selective catalytic reduction for NOx abatement. *Angewandte Chemie - International Edition*, **2009**, 48, 8366-8	16.4	96
151	Role of Nitrate Species in the "NO2-SCR" Mechanism over a Commercial Fe-zeolite Catalyst for SCR Mobile Applications. *Catalysis Letters*, **2009**, 130, 525-531	2.8	58
150	NH3–NO/NO2 SCR for Diesel Exhausts Aftertreatment: Reactivity, Mechanism and Kinetic Modelling of Commercial Fe- and Cu-Promoted Zeolite Catalysts. *Topics in Catalysis*, **2009**, 52, 1837-1841	2.3	96
149	Dominant Reaction Pathways in the Catalytic Partial Oxidation of CH4 on Rh. *Topics in Catalysis*, **2009**, 52, 1983-1988	2.3	50
148	Fischer–Tropsch synthesis on a Co/Al2O3 catalyst with CO2 containing syngas. *Applied Catalysis A: General*, **2009**, 355, 61-68	5.1	119
147	An experimental investigation of Fischer–Tropsch synthesis over washcoated metallic structured supports. *Applied Catalysis A: General*, **2009**, 370, 93-101	5.1	88
146	Kinetic study of the NO/NO2-NH3 SCR reactions over a V2O5–WO3/TiO2 commercial catalyst for the after treatment of Diesel engines exhausts. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 183-190		8
145	The chemistry of the NO/NO2–NH3 "fast" SCR reaction over Fe-ZSM5 investigated by transient reaction analysis. *Journal of Catalysis*, **2008**, 256, 312-322	7.3	366
144	Steam and dry reforming of methane on Rh: Microkinetic analysis and hierarchy of kinetic models. *Journal of Catalysis*, **2008**, 259, 211-222	7.3	192
143	Dynamic methods for catalytic kinetics. *Applied Catalysis A: General*, **2008**, 342, 3-28	5.1	86

142	Study of a Fe‐zeolite-based system as NH3-SCR catalyst for diesel exhaust aftertreatment. *Catalysis Today*, **2008**, 136, 18-27	5.3	229
141	Two-dimensional detailed modeling of fuel-rich . *Chemical Engineering Science*, **2008**, 63, 2657-2669	4.4	40
140	Generalized Correlation for Gas/Solid Mass-Transfer Coefficients in Metallic and Ceramic Foams. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3955-3958	3.9	53
139	Numerical Simulation of Zeolite- and V-Based SCR Catalytic Converters **2007**,		71
138	NH3 SCR of NOx for diesel exhausts aftertreatment: role of NO2 in catalytic mechanism, unsteady kinetics and monolith converter modelling. *Chemical Engineering Science*, **2007**, 62, 5001-5006	4.4	60
137	Development of a complete kinetic model for the Fischer‐Tropsch synthesis over Co/Al2O3 catalysts. *Chemical Engineering Science*, **2007**, 62, 5338-5343	4.4	105
136	Role of gas-phase chemistry in the rich combustion ofH2and CO over aRh/Al2O3catalyst in annular reactor. *Chemical Engineering Science*, **2007**, 62, 4992-4997	4.4	14
135	Redox features in the catalytic mechanism of the Standard and Fast NH3-SCR of NOx over a V-based catalyst investigated by dynamic methods. *Journal of Catalysis*, **2007**, 245, 1-10	7.3	240
134	Reactivity of NO/NO2‐NH3 SCR system for diesel exhaust aftertreatment: Identification of the reaction network as a function of temperature and NO2 feed content. *Applied Catalysis B: Environmental*, **2007**, 70, 80-90	21.8	246
133	How to control the selectivity in the reduction of NOx with H2 over Pt-Ba/Al2O3 Lean NOx Trap catalysts. *Topics in Catalysis*, **2007**, 42-43, 21-25	2.3	36
132	NH3-NO/NO2 SCR for diesel exhausts after treatment: mechanism and modelling of a catalytic converter. *Topics in Catalysis*, **2007**, 42-43, 43-46	2.3	48
131	Combined use of a mass-spectrometer and a UV analyzer in the dynamic study of NH3-SCR for diesel exhaust aftertreatment. *Topics in Catalysis*, **2007**, 42-43, 161-164	2.3	19
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