

Enrico Tronconi

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63
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#	Paper	IF	Citations
285	The chemistry of the NO/NO ₂ /NH ₃ fast-SCR reaction over Fe-ZSM5 investigated by transient reaction analysis. <i>Journal of Catalysis</i> , 2008 , 256, 312-322	7.3	366
284	NO _x Storage Reduction over Pt/Ba/Al ₂ O ₃ Catalyst. <i>Journal of Catalysis</i> , 2001 , 204, 175-191	7.3	298
283	Mass-Transfer Characterization of Metallic Foams as Supports for Structured Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4993-5002	3.9	274
282	FT-IR and TPD Investigation of the NO _x Storage Properties of BaO/Al ₂ O ₃ and Pt/BaO/Al ₂ O ₃ Catalysts. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12732-12745	3.4	270
281	Reactivity of NO/NO ₂ /NH ₃ SCR system for diesel exhaust aftertreatment: Identification of the reaction network as a function of temperature and NO ₂ feed content. <i>Applied Catalysis B: Environmental</i> , 2007 , 70, 80-90	21.8	246
280	Redox features in the catalytic mechanism of the standard and fast-NH ₃ -SCR of NO _x over a V-based catalyst investigated by dynamic methods. <i>Journal of Catalysis</i> , 2007 , 245, 1-10	7.3	240
279	A comparative study of the NH ₃ -SCR reactions over a Cu-zeolite and a Fe-zeolite catalyst. <i>Catalysis Today</i> , 2010 , 151, 223-230	5.3	229
278	Study of a Fe-zeolite-based system as NH ₃ -SCR catalyst for diesel exhaust aftertreatment. <i>Catalysis Today</i> , 2008 , 136, 18-27	5.3	229
277	NH ₃ /NO/NO ₂ chemistry over V-based catalysts and its role in the mechanism of the Fast SCR reaction. <i>Catalysis Today</i> , 2006 , 114, 3-12	5.3	226
276	NO _x adsorption study over Pt/Ba/alumina catalysts: FT-IR and pulse experiments. <i>Journal of Catalysis</i> , 2004 , 222, 377-388	7.3	225
275	The deposition of Al ₂ O ₃ layers on ceramic and metallic supports for the preparation of structured catalysts. <i>Catalysis Today</i> , 2001 , 69, 307-314	5.3	223
274	Steam and dry reforming of methane on Rh: Microkinetic analysis and hierarchy of kinetic models. <i>Journal of Catalysis</i> , 2008 , 259, 211-222	7.3	192
273	Higher Alcohol Synthesis. <i>Catalysis Reviews - Science and Engineering</i> , 1991 , 33, 109-168	12.6	189
272	Adequacy of lumped parameter models for SCR reactors with monolith structure. <i>AIChE Journal</i> , 1992 , 38, 201-210	3.6	182
271	Ammonia blocking of the Fast SCR reactivity over a commercial Fe-zeolite catalyst for Diesel exhaust aftertreatment. <i>Journal of Catalysis</i> , 2009 , 265, 141-147	7.3	143
270	A comparison of lumped and distributed models of monolith catalytic combustors. <i>Chemical Engineering Science</i> , 1995 , 50, 2705-2715	4.4	139
269	New insights in the NO _x reduction mechanism with H ₂ over Pt/Ba/Al ₂ O ₃ lean NO _x trap catalysts under near-isothermal conditions. <i>Journal of Catalysis</i> , 2006 , 239, 244-254	7.3	138

268	Washcoating method for Pd/Al ₂ O ₃ deposition on metallic foams. <i>Applied Catalysis B: Environmental</i> , 2006 , 62, 121-131	21.8	124
267	An appraisal of the heat transfer properties of metallic open-cell foams for strongly exo-/endo-thermic catalytic processes in tubular reactors. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 512-528	14.7	123
266	NH ₃ -SCR of NO over a V-based catalyst: Low-T redox kinetics with NH ₃ inhibition. <i>AIChE Journal</i> , 2006 , 52, 3222-3233	3.6	123
265	Modelling of an SCR catalytic converter for diesel exhaust after treatment: Dynamic effects at low temperature. <i>Catalysis Today</i> , 2005 , 105, 529-536	5.3	123
264	Heat Transfer Characterization of Metallic Foams. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 9078-9085	3.9	122
263	Detailed kinetic modeling of the NH ₃ /NO/NO ₂ SCR reactions over a commercial Cu-zeolite catalyst for Diesel exhausts after treatment. <i>Catalysis Today</i> , 2012 , 197, 243-255	5.3	121
262	Fischer-Tropsch synthesis on a Co/Al ₂ O ₃ catalyst with CO ₂ containing syngas. <i>Applied Catalysis A: General</i> , 2009 , 355, 61-68	5.1	119
261	Design of novel monolith catalyst supports for gas/solid reactions with heat exchange. <i>Chemical Engineering Science</i> , 2000 , 55, 2161-2171	4.4	119
260	SCR-DeNO _x for diesel engine exhaust aftertreatment: unsteady-state kinetic study and monolith reactor modelling. <i>Chemical Engineering Science</i> , 2004 , 59, 5301-5309	4.4	117
259	Oxidation of sulfur dioxide to sulfur trioxide over honeycomb DeNoxing catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 826-834	3.9	114
258	A "Nitrate Route" for the low temperature "Fast SCR" reaction over a V ₂ O ₅ -WO ₃ /TiO ₂ commercial catalyst. <i>Chemical Communications</i> , 2004 , 2718-9	5.8	109
257	Development of a complete kinetic model for the Fischer-Tropsch synthesis over Co/Al ₂ O ₃ catalysts. <i>Chemical Engineering Science</i> , 2007 , 62, 5338-5343	4.4	105
256	On the dynamic behavior of NO-storage/reduction on PtBa/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2002 , 75, 431-437	5.3	101
255	Structured catalysts for non-adiabatic applications. <i>Current Opinion in Chemical Engineering</i> , 2014 , 5, 55-67	5.4	98
254	Enhanced NH ₃ selective catalytic reduction for NO _x abatement. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8366-8	16.4	96
253	NH ₃ /NO/NO ₂ SCR for Diesel Exhausts Aftertreatment: Reactivity, Mechanism and Kinetic Modelling of Commercial Fe- and Cu-Promoted Zeolite Catalysts. <i>Topics in Catalysis</i> , 2009 , 52, 1837-1847	2.3	96
252	In-situ DRIFTS measurements for the mechanistic study of NO oxidation over a commercial Cu-CHA catalyst. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 181-192	21.8	95
251	Methods for the catalytic activation of metallic structured substrates. <i>Catalysis Science and Technology</i> , 2014 , 4, 2846-2870	5.5	95

250	Methanol oxidation over vanadia-based catalysts. <i>Applied Catalysis A: General</i> , 1997 , 157, 387-408	5.1	94
249	Diesel NOx aftertreatment catalytic technologies: Analogies in LNT and SCR catalytic chemistry. <i>Catalysis Today</i> , 2010 , 151, 202-211	5.3	93
248	Dynamics of the SCR-DeNOx reaction by the transient-response method. <i>AIChE Journal</i> , 1997 , 43, 2559-2570	5.3	93
247	Experimental and theoretical investigation of the dynamics of the SCR - DeNOx reaction. <i>Chemical Engineering Science</i> , 1996 , 51, 2965-2970	4.4	92
246	An experimental investigation of Fischer-Tropsch synthesis over washcoated metallic structured supports. <i>Applied Catalysis A: General</i> , 2009 , 370, 93-101	5.1	88
245	Honeycomb supports with high thermal conductivity for gas/solid chemical processes. <i>Catalysis Today</i> , 2005 , 105, 297-304	5.3	88
244	Dynamic methods for catalytic kinetics. <i>Applied Catalysis A: General</i> , 2008 , 342, 3-28	5.1	86
243	FTIR in situ mechanistic study of the NH ₃ NO/NO ₂ fast SCR reaction over a commercial Fe-ZSM-5 catalyst. <i>Catalysis Today</i> , 2012 , 184, 107-114	5.3	85
242	NO/NO ₂ /N ₂ O/NH ₃ SCR reactions over a commercial Fe-zeolite catalyst for diesel exhaust aftertreatment: Intrinsic kinetics and monolith converter modelling. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 106-118	21.8	85
241	Monolithic catalysts with high thermal conductivity for the Fischer-Tropsch synthesis in tubular reactors. <i>Chemical Engineering Journal</i> , 2011 , 171, 1294-1307	14.7	83
240	A C1 microkinetic model for methane conversion to syngas on Rh/Al ₂ O ₃ . <i>AIChE Journal</i> , 2009 , 55, 993-1008	5.3	83
239	Comparison among structured and packed-bed reactors for the catalytic partial oxidation of CH ₄ at short contact times. <i>Catalysis Today</i> , 2005 , 105, 709-717	5.3	83
238	Improvement in activity and alkali resistance of a novel V-Ce(SO ₄) ₂ /Ti catalyst for selective catalytic reduction of NO with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 449-460	21.8	82
237	Dynamics of SCR reaction over a TiO ₂ -supported vanadia-based commercial catalyst. <i>Catalysis Today</i> , 2000 , 60, 73-82	5.3	82
236	Transient kinetic study of the SCR-DeNOx reaction. <i>Catalysis Today</i> , 1998 , 45, 85-92	5.3	79
235	Heat transfer properties of metal foam supports for structured catalysts: Wall heat transfer coefficient. <i>Catalysis Today</i> , 2013 , 216, 121-134	5.3	76
234	Selective reduction of nitrogen oxides (NOx) by ammonia over honeycomb selective catalytic reduction catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1053-1060	3.9	75
233	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. <i>Journal of Catalysis</i> , 2014 , 311, 266-270	7.3	74

232	Detailed Kinetics of the Fischer-Tropsch Synthesis on Cobalt Catalysts Based on H-Assisted CO Activation. <i>Topics in Catalysis</i> , 2011 , 54, 786-800	2.3	74
231	Microkinetic modeling of spatially resolved autothermal CH ₄ catalytic partial oxidation experiments over Rh-coated foams. <i>Journal of Catalysis</i> , 2010 , 275, 270-279	7.3	73
230	Numerical Simulation of Zeolite- and V-Based SCR Catalytic Converters 2007 ,		71
229	Monolithic catalysts with high conductivity-honeycomb supports for gas/solid exothermic reactions: characterization of the heat-transfer properties. <i>Chemical Engineering Science</i> , 2004 , 59, 4941-4949	4.4	66
228	Continuous vs. discrete models of nonadiabatic monolith catalysts. <i>AIChE Journal</i> , 1996 , 42, 2382-2387	3.6	66
227	Selective catalytic removal of NO _x : a mathematical model for design of catalyst and reactor. <i>Chemical Engineering Science</i> , 1992 , 47, 2401-2406	4.4	66
226	Current status of modeling lean exhaust gas aftertreatment catalysts. <i>Advances in Chemical Engineering</i> , 2007 , 33, 103-283	0.6	65
225	Dynamic Investigation of the Role of the Surface Sulfates in NO _x Reduction and SO ₂ Oxidation over V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 2350-2359	3.9	64
224	In situ FT-IR and reactivity study of NO _x storage over Pt/Ba/Al ₂ O ₃ catalysts. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4428-4434	3.6	64
223	Mathematical Models of Catalytic Combustors. <i>Catalysis Reviews - Science and Engineering</i> , 1999 , 41, 227-254	12.6	63
222	Experimental Study of the NO Oxidation to NO ₂ Over Metal Promoted Zeolites Aimed at the Identification of the Standard SCR Rate Determining Step. <i>Topics in Catalysis</i> , 2013 , 56, 109-113	2.3	61
221	NH ₃ SCR of NO _x for diesel exhausts aftertreatment: role of NO ₂ in catalytic mechanism, unsteady kinetics and monolith converter modelling. <i>Chemical Engineering Science</i> , 2007 , 62, 5001-5006	4.4	60
220	NO _x removal catalysis under lean conditions. <i>Catalysis Today</i> , 2006 , 117, 316-320	5.3	60
219	New Enhanced NH ₃ -SCR Reaction for NO _x Emission Control. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10386-10391	3.9	59
218	Role of Nitrate Species in the NO ₂ -SCR Mechanism over a Commercial Fe-zeolite Catalyst for SCR Mobile Applications. <i>Catalysis Letters</i> , 2009 , 130, 525-531	2.8	58
217	Transient response method applied to the kinetic analysis of the DeNO _x SCR reaction. <i>Chemical Engineering Science</i> , 2001 , 56, 1229-1237	4.4	58
216	Oxidation of methanol to methyl formate over V-Ti oxide catalysts. <i>Catalysis Today</i> , 1987 , 1, 209-218	5.3	58
215	Enhanced NH ₃ Selective Catalytic Reduction for NO _x Abatement. <i>Angewandte Chemie</i> , 2009 , 121, 8516-8518	3.5	57

214	Effect of operating variables on the enhanced SCR reaction over a commercial V ₂ O ₅ -WO ₃ /TiO ₂ catalyst for stationary applications. <i>Catalysis Today</i> , 2012 , 184, 153-159	5.3	55
213	NO _x adsorption study over Pt/Ba/alumina catalysts: FT-IR and reactivity study. <i>Topics in Catalysis</i> , 2004 , 30/31, 181-186	2.3	54
212	Unifying redox kinetics for standard and fast NH ₃ -SCR over a V ₂ O ₅ -WO ₃ /TiO ₂ catalyst. <i>AIChE Journal</i> , 2009 , 55, 1514-1529	3.6	53
211	Theoretical analysis of mass and heat transfer in monolith catalysts with triangular channels. <i>Chemical Engineering Science</i> , 1997 , 52, 3521-3526	4.4	53
210	Generalized Correlation for Gas/Solid Mass-Transfer Coefficients in Metallic and Ceramic Foams. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3955-3958	3.9	53
209	A study on the thermal behavior of structured plate-type catalysts with metallic supports for gas/solid exothermic reactions. <i>Chemical Engineering Science</i> , 2000 , 55, 6021-6036	4.4	53
208	Influence of the Substrate Properties on the Performances of NH ₃ -SCR Monolithic Catalysts for the Aftertreatment of Diesel Exhaust: An Experimental and Modeling Study. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 299-309	3.9	51
207	Numerical Simulation of NO/NO ₂ /NH ₃ Reactions on SCR-Catalytic Converters: Model Development and Applications 2006 ,		51
206	Kinetic Study of Lean NO _x Storage over the Pt/Ba/Al ₂ O ₃ System. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4522-4534	3.9	51
205	Structured reactors for kinetic measurements in catalytic combustion. <i>Chemical Engineering Journal</i> , 2001 , 82, 57-71	14.7	51
204	Mechanism and active sites for methanol oxidation to methyl formate over coprecipitated vanadium-titanium oxide catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1989 , 28, 387-393	3.9	51
203	Speciation of Cu Cations in Cu-CHA Catalysts for NH ₃ -SCR: Effects of SiO ₂ /Al ₂ O ₃ Ratio and Cu-Loading Investigated by Transient Response Methods. <i>ACS Catalysis</i> , 2019 , 9, 8916-8927	13.1	50
202	A fundamental analysis of the influence of the geometrical properties on the effective thermal conductivity of open-cell foams. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 129, 181-189	3.7	50
201	Modelling the ammonia adsorption-desorption process over an Fe-zeolite catalyst for SCR automotive applications. <i>Catalysis Today</i> , 2012 , 188, 42-52	5.3	50
200	Dominant Reaction Pathways in the Catalytic Partial Oxidation of CH ₄ on Rh. <i>Topics in Catalysis</i> , 2009 , 52, 1983-1988	2.3	50
199	Methyl formate from methanol oxidation over coprecipitated V-Ti-O catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 1269-1275	3.9	50
198	NH ₃ -NO/NO ₂ SCR for diesel exhausts after treatment: mechanism and modelling of a catalytic converter. <i>Topics in Catalysis</i> , 2007 , 42-43, 43-46	2.3	48
197	Intensifying heat transfer in Fischer-Tropsch tubular reactors through the adoption of conductive packed foams. <i>Chemical Engineering Journal</i> , 2018 , 349, 829-837	14.7	46

196	Simulation of structured catalytic reactors with enhanced thermal conductivity for selective oxidation reactions. <i>Catalysis Today</i> , 2001 , 69, 63-73	5.3	44
195	Mathematical modelling of catalytic combustors fuelled by gasified biomasses. <i>Catalysis Today</i> , 2000 , 59, 151-162	5.3	44
194	Numerical simulation of heat transfer in the near-wall region of tubular reactors packed with metal open-cell foams. <i>Chemical Engineering Journal</i> , 2015 , 264, 268-279	14.7	43
193	NO ₂ adsorption on Fe- and Cu-zeolite catalysts: The effect of the catalyst redox state. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 433-444	21.8	43
192	Enabling small-scale methanol synthesis reactors through the adoption of highly conductive structured catalysts. <i>Catalysis Today</i> , 2013 , 215, 176-185	5.3	43
191	Steady-state and transient analysis of a CH ₄ catalytic partial oxidation reformer. <i>AIChE Journal</i> , 2006 , 52, 3234-3245	3.6	43
190	Synergy of homogeneous and heterogeneous chemistry probed by in situ spatially resolved measurements of temperature and composition. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3943-6	16.4	42
189	Optimal design of a CH ₄ CPO-reformer with honeycomb catalyst: Combined effect of catalyst load and channel size on the surface temperature profile. <i>Catalysis Today</i> , 2011 , 171, 79-83	5.3	42
188	Unsteady Analysis of NO Reduction over Selective Catalytic Reduction De-NOx Monolith Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 2341-2349	3.9	42
187	The role of inter- and intra-phase mass transfer in the SCR-DeNOx reaction over catalysts of different shapes. <i>Catalysis Today</i> , 1999 , 52, 249-258	5.3	42
186	CFD modeling of catalytic reactions in open-cell foam substrates. <i>Computers and Chemical Engineering</i> , 2016 , 92, 55-63	4	42
185	Evidence for the formation of an antase-type V?Ti oxide solid-state solution. <i>Journal of Solid State Chemistry</i> , 1987 , 67, 91-97	3.3	41
184	Two-dimensional detailed modeling of fuel-rich . <i>Chemical Engineering Science</i> , 2008 , 63, 2657-2669	4.4	40
183	Analysis of multidimensional models of monolith catalysts for hybrid combustors. <i>AIChE Journal</i> , 1995 , 41, 2250-2260	3.6	40
182	Synthesis of alcohols from carbon oxides and hydrogen. 4. Lumped kinetics for the higher alcohol synthesis over a zinc-chromium-potassium oxide catalyst. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 2122-2129	3.9	40
181	Experimental and modeling study of a dual-layer (SCR+PGM) NH ₃ slip monolith catalyst (ASC) for automotive SCR aftertreatment systems. Part 1. Kinetics for the PGM component and analysis of SCR/PGM interactions. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 861-876	21.8	39
180	A mathematical model for the catalytic hydrogenolysis of carbohydrates. <i>Chemical Engineering Science</i> , 1992 , 47, 2451-2456	4.4	39
179	A fundamental investigation of gas/solid mass transfer in open-cell foams using a combined experimental and CFD approach. <i>Chemical Engineering Journal</i> , 2018 , 352, 558-571	14.7	39

178	Highly conductive packed foams—A new concept for the intensification of strongly endo- and exo-thermic catalytic processes in compact tubular reactors. <i>Catalysis Today</i> , 2016 , 273, 178-186	5-3	38
177	Theoretical and experimental study of the interaction between NO _x reduction and SO ₂ oxidation over DeNO _x -SCR catalysts. <i>Catalysis Today</i> , 1996 , 27, 15-21	5-3	37
176	Higher Alcohol Synthesis over Alkali Metal-Promoted High-Temperature Methanol Catalysts. <i>Applied Catalysis</i> , 1989 , 47, 317-333		37
175	How to control the selectivity in the reduction of NO _x with H ₂ over Pt-Ba/Al ₂ O ₃ Lean NO _x Trap catalysts. <i>Topics in Catalysis</i> , 2007 , 42-43, 21-25	2-3	36
174	A complete model of scr monolith reactors for the analysis of interacting NO _x reduction and SO ₂ oxidation reactions. <i>Chemical Engineering Science</i> , 1994 , 49, 4277-4287	4-4	36
173	Investigation of NO ₂ and NO interaction with an Fe-ZSM-5 catalyst by transient response methods and chemical trapping techniques. <i>Journal of Catalysis</i> , 2015 , 328, 258-269	7-3	35
172	Numerical Simulation of Ammonia SCR-Catalytic Converters: Model Development and Application 2005 ,		35
171	Interaction of NO _x Reduction and Soot Oxidation in a DPF with Cu-Zeolite SCR Coating. <i>Emission Control Science and Technology</i> , 2015 , 1, 134-151	2	34
170	Washcoating and chemical testing of a commercial Cu/ZnO/Al ₂ O ₃ catalyst for the methanol synthesis over copper open-cell foams. <i>Applied Catalysis A: General</i> , 2014 , 481, 96-103	5-1	34
169	Investigation of pressure drop in 3D replicated open-cell foams: Coupling CFD with experimental data on additively manufactured foams. <i>Chemical Engineering Journal</i> , 2019 , 377, 120123	14-7	34
168	Optimization of compact multitubular fixed-bed reactors for the methanol synthesis loaded with highly conductive structured catalysts. <i>Chemical Engineering Journal</i> , 2014 , 255, 257-265	14-7	33
167	Conductive Monolithic Catalysts: Development and Industrial Pilot Tests for the Oxidation of o-Xylene to Phthalic Anhydride. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7590-7596	3-9	33
166	A simplified approach to modeling of dual-layer ammonia slip catalysts. <i>Chemical Engineering Science</i> , 2012 , 75, 75-83	4-4	33
165	Heat transfer performance of structured catalytic reactors packed with metal foam supports: Influence of wall coupling. <i>Catalysis Today</i> , 2016 , 273, 187-195	5-3	32
164	An experimental and modelling study of the reactivity of adsorbed NH ₃ in the low temperature NH ₃ -SCR reduction half-cycle over a Cu-CHA catalyst. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119397	21-8	31
163	Activation of metallic open-cell foams via washcoat deposition of Ni/MgAl ₂ O ₄ catalysts for steam reforming reaction. <i>Catalysis Today</i> , 2012 , 197, 256-264	5-3	30
162	A systematic procedure for the virtual reconstruction of open-cell foams. <i>Chemical Engineering Journal</i> , 2017 , 315, 608-620	14-7	29
161	Accurate prediction of the effective radial conductivity of highly conductive honeycomb monoliths with square channels. <i>Chemical Engineering Journal</i> , 2013 , 223, 224-230	14-7	29

160	Characteristics of metallic structured catalysts with high thermal conductivity. <i>Catalysis Today</i> , 2000 , 60, 57-62	5.3	29
159	Transient Kinetics of SO ₂ Oxidation Over SCR-DeNO _x Monolith Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2593-2598	3.9	29
158	Development of a heat transport model for open-cell metal foams with high cell densities. <i>Chemical Engineering Journal</i> , 2017 , 321, 432-446	14.7	28
157	Cold Start Effect Phenomena over Zeolite SCR Catalysts for Exhaust Gas Aftertreatment. <i>SAE International Journal of Commercial Vehicles</i> , 2013 , 6, 190-199	1	28
156	Selective oxidation of n-butane to maleic anhydride in fluid bed reactors: detailed kinetic investigation and reactor modelling. <i>Chemical Engineering Science</i> , 2003 , 58, 643-648	4.4	28
155	Analytical Geometrical Model of Open Cell Foams with Detailed Description of Strut-Node Intersection. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 915-925	0.8	27
154	Experimental and modeling study of the impact of interphase and intraphase diffusional limitations on the DeNO _x efficiency of a V-based extruded catalyst for NH ₃ SCR of Diesel exhausts. <i>Chemical Engineering Journal</i> , 2012 , 207-208, 57-65	14.7	27
153	An investigation of the thermodynamic constraints in higher alcohol synthesis over Cs-Promoted ZnCr-oxide catalyst*1. <i>Journal of Catalysis</i> , 1990 , 124, 376-390	7.3	27
152	NO oxidation on Fe- and Cu-zeolites mixed with BaO/Al ₂ O ₃ : Free oxidation regime and relevance for the NH ₃ -SCR chemistry at low temperature. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 324-331	21.8	27
151	Experimental study of the interaction between soot combustion and NH ₃ -SCR reactivity over a Cu/Zeolite SDPF catalyst. <i>Catalysis Today</i> , 2016 , 267, 110-118	5.3	26
150	A kinetic analysis of the partial oxidation of C ₃ H ₈ over a 2% Rh/Al ₂ O ₃ catalyst in annular microreactor. <i>Catalysis Today</i> , 2012 , 197, 265-280	5.3	26
149	Detailed kinetics of the Fischer-Tropsch synthesis over Co-based catalysts containing sulphur. <i>Catalysis Today</i> , 2010 , 154, 202-209	5.3	26
148	Kinetics of liquid-phase hydrogenation of cinnamaldehyde over a platinum-tin/nylon catalyst. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 1766-1770	3.9	26
147	Experimental and modeling analysis of the effect of catalyst aging on the performance of a short contact time adiabatic CH ₄ -CPO reactor. <i>Catalysis Today</i> , 2007 , 129, 372-379	5.3	25
146	Development of a Mechanistic Kinetic Model of the Higher Alcohol Synthesis over a Cs-Doped Zn/Cr/O Catalyst. 1. Model Derivation and Data Fitting. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 2144-2153	3.9	25
145	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. <i>Chemical Engineering Journal</i> , 2020 , 386, 123988	14.7	25
144	Structured reactors for kinetic measurements under severe conditions in catalytic combustion over palladium supported systems. <i>Catalysis Today</i> , 2001 , 69, 399-408	5.3	24
143	The Low Temperature Interaction of NO + O ₂ with a Commercial Cu-CHA Catalyst: A Chemical Trapping Study. <i>Topics in Catalysis</i> , 2016 , 59, 678-685	2.3	24

142	On the Redox Mechanism of Low-Temperature NH ₃ -SCR over Cu-CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7197-7204	16.4	24
141	The low-temperature interaction of NH ₃ /NO/NO ₂ + O ₂ with Fe-ZSM-5 + BaO/Al ₂ O ₃ and H-ZSM-5 + BaO/Al ₂ O ₃ : Influence of phase separation and relevance for the NH ₃ -SCR chemistry. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 471-478	21.8	23
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