

Reinhard Schomcker

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262
papers

7,923
citations

46
h-index

77
g-index

269
ext. papers

8,858
ext. citations

5.2
avg, IF

6.09
L-index

#	Paper	IF	Citations
262	Diacetylene Functionalized Covalent Organic Framework (COF) for Photocatalytic Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1423-1427	16.4	410
261	Dilute lamellar and L3 phases in the binary water-C12E5 system. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 2253-2261		384
260	Microemulsions in Technical Processes. <i>Chemical Reviews</i> , 1995 , 95, 849-864	68.1	371
259	CO formation/selectivity for steam reforming of methanol with a commercial CuO/ZnO/Al2O3 catalyst. <i>Applied Catalysis A: General</i> , 2004 , 259, 83-94	5.1	222
258	A Critical Assessment of Li/MgO-Based Catalysts for the Oxidative Coupling of Methane. <i>Catalysis Reviews - Science and Engineering</i> , 2011 , 53, 424-514	12.6	174
257	Fast tuning of covalent triazine frameworks for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2017 , 53, 5854-5857	5.8	162
256	Steam reforming of methanol over copper-containing catalysts: Influence of support material on microkinetics. <i>Journal of Catalysis</i> , 2007 , 246, 177-192	7.3	139
255	Partial oxidation of ethanol on vanadia catalysts on supporting oxides with different redox properties compared to propane. <i>Journal of Catalysis</i> , 2012 , 296, 120-131	7.3	121
254	Thermoregulated Liquid/Liquid Catalyst Separation and Recycling. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 1485-1495	5.6	117
253	Steam reforming of methanol over Cu/ZrO/CeO catalysts: a kinetic study. <i>Journal of Catalysis</i> , 2005 , 230, 464-475	7.3	117
252	Oxidative Dehydrogenation of Ethane over Multiwalled Carbon Nanotubes. <i>ChemCatChem</i> , 2010 , 2, 644-648	5.48	113
251	An integrated approach to Deacon chemistry on RuO2-based catalysts. <i>Journal of Catalysis</i> , 2012 , 285, 273-284	7.3	104
250	Analyses of polysaccharide fouling mechanisms during crossflow membrane filtration. <i>Journal of Membrane Science</i> , 2008 , 308, 152-161	9.6	100
249	Nanostructured manganese oxides as highly active water oxidation catalysts: a boost from manganese precursor chemistry. <i>ChemSusChem</i> , 2014 , 7, 2202-11	8.3	96
248	Liquid-Liquid Phase Equilibrium in Glycerol-Methanol-Methyl Oleate and Glycerol-Monoolein-Methyl Oleate Ternary Systems. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3693-3696	3.9	96
247	Oxidative coupling of methane: A complex surface/gas phase mechanism with strong impact on the reaction engineering. <i>Catalysis Today</i> , 2014 , 228, 212-218	5.3	93
246	Oxidative dehydrogenation of propane over low-loaded vanadia catalysts: Impact of the support material on kinetics and selectivity. <i>Journal of Molecular Catalysis A</i> , 2008 , 289, 28-37		92

245	Alumina coated nickel nanoparticles as a highly active catalyst for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 122-127	21.8	90
244	Mesoporous carbon nitride-tungsten oxide composites for enhanced photocatalytic hydrogen evolution. <i>ChemSusChem</i> , 2015 , 8, 1404-10	8.3	88
243	Donor-Acceptor-Type Heptazine-Based Polymer Networks for Photocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2016 , 4, 744-750	3.5	85
242	Anomalous reactivity of supported V ₂ O ₅ nanoparticles for propane oxidative dehydrogenation: influence of the vanadium oxide precursor. <i>Dalton Transactions</i> , 2013 , 42, 12644-53	4.3	81
241	Lipase-catalysed ester synthesis in oil-continuous microemulsions. <i>BBA - Proteins and Proteomics</i> , 1987 , 912, 278-282		80
240	Solid-State Ion-Exchanged Cu/Mordenite Catalysts for the Direct Conversion of Methane to Methanol. <i>ACS Catalysis</i> , 2017 , 7, 1403-1412	13.1	77
239	Hydroformylation of 1-dodecene using Rh-TPPTS in a microemulsion. <i>Applied Catalysis A: General</i> , 2002 , 225, 239-249	5.1	76
238	Investigation of the surface reaction network of the oxidative coupling of methane over Na ₂ WO ₄ /Mn/SiO ₂ catalyst by temperature programmed and dynamic experiments. <i>Journal of Catalysis</i> , 2016 , 341, 91-103	7.3	74
237	In situ surface coverage analysis of RuO ₂ -catalysed HCl oxidation reveals the entropic origin of compensation in heterogeneous catalysis. <i>Nature Chemistry</i> , 2012 , 4, 739-45	17.6	73
236	Catalytic Membrane Reactors for Partial Oxidation Using Perovskite Hollow Fiber Membranes and for Partial Hydrogenation Using a Catalytic Membrane Contactor. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2286-2294	3.9	73
235	Hydroformylation of 1-Dodecene with Water-Soluble Rhodium Catalysts with Bidentate Ligands in Multiphase Systems. <i>ChemCatChem</i> , 2013 , 5, 1854-1862	5.2	70
234	Hydrogen Evolution Reaction in a Large-Scale Reactor using a Carbon Nitride Photocatalyst under Natural Sunlight Irradiation. <i>Energy Technology</i> , 2015 , 3, 1014-1017	3.5	65
233	On the nanoparticle synthesis in microemulsions: detailed characterization of an applied reaction mixture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 163, 3-15	5.1	64
232	Interaction of enzymes with surfactants in aqueous solution and in water-in-oil microemulsions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988 , 84, 4203		63
231	Investigation of the role of the Na ₂ WO ₄ /Mn/SiO ₂ catalyst composition in the oxidative coupling of methane by chemical looping experiments. <i>Journal of Catalysis</i> , 2018 , 360, 102-117	7.3	60
230	One-Pot Synthesis of Supported, Nanocrystalline Nickel Manganese Oxide for Dry Reforming of Methane. <i>ACS Catalysis</i> , 2013 , 3, 224-229	13.1	59
229	Quantification of photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3466-3472	3.72	59
228	High-Surface-Area SBA-15 with Enhanced Mesopore Connectivity by the Addition of Poly(vinyl alcohol). <i>Chemistry of Materials</i> , 2011 , 23, 2062-2067	9.6	59

227	What Makes a Good Catalyst for the Deacon Process?. <i>ACS Catalysis</i> , 2013 , 3, 1034-1046	13.1	58
226	Fluidized bed processing of sodium tungsten manganese catalysts for the oxidative coupling of methane. <i>Chemical Engineering Journal</i> , 2011 , 168, 1352-1359	14.7	58
225	Microemulsion systems for catalytic reactions and processes. <i>Catalysis Science and Technology</i> , 2015 , 5, 24-33	5.5	57
224	Support material variation for the Mn_xO_y - Na_2WO_4/SiO_2 catalyst. <i>Catalysis Today</i> , 2014 , 228, 5-14	5.3	56
223	Li-doped MgO From Different Preparative Routes for the Oxidative Coupling of Methane. <i>Topics in Catalysis</i> , 2011 , 54, 1266-1285	2.3	54
222	Halloysites Stabilized Emulsions for Hydroformylation of Long Chain Olefins. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600435	4.6	52
221	COSMO-RS and UNIFAC in Prediction of Micelle/Water Partition Coefficients. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6501-6509	3.9	50
220	Mass and heat transfer effects on the oxidative dehydrogenation of propane (ODP) over a low loaded VO_x/Al_2O_3 catalyst. <i>Applied Catalysis A: General</i> , 2007 , 323, 66-76	5.1	49
219	Stability and activity of alcohol dehydrogenases in W/O-microemulsions: Enantioselective reduction including cofactor regeneration. <i>Biotechnology and Bioengineering</i> , 2000 , 70, 638-646	4.9	48
218	Catalysis of a Diels-Alder cycloaddition with differently fabricated molecularly imprinted polymers. <i>Catalysis Communications</i> , 2005 , 6, 601-606	3.2	47
217	High performance $(VO_x)_n(TiO_x)_m/SBA-15$ catalysts for the oxidative dehydrogenation of propane. <i>Catalysis Science and Technology</i> , 2014 , 4, 786	5.5	46
216	Facile one-pot synthesis of Pt nanoparticles /SBA-15: an active and stable material for catalytic applications. <i>Energy and Environmental Science</i> , 2011 , 4, 2020	35.4	46
215	Chemical looping as reactor concept for the oxidative coupling of methane over a $Na_2WO_4/Mn/SiO_2$ catalyst. <i>Chemical Engineering Journal</i> , 2016 , 306, 646-654	14.7	46
214	Rhodium catalyzed hydrogenation reactions in aqueous micellar systems as green solvents. <i>RSC Advances</i> , 2011 , 1, 474	3.7	45
213	Techno-Economic Assessment Guidelines for CO ₂ Utilization. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	45
212	Selectivity of partial hydrogenation reactions performed in a pore-through-flow catalytic membrane reactor. <i>Catalysis Today</i> , 2005 , 104, 305-312	5.3	44
211	Potential of High-Frequency EPR for Investigation of Supported Vanadium Oxide Catalysts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17664-17671	3.8	43
210	Assessing Early-Stage CO ₂ utilization Technologies—Comparing Apples and Oranges?. <i>Energy Technology</i> , 2017 , 5, 850-860	3.5	42

209	Oxidative dehydrogenation of propane on silica (SBA-15) supported vanadia catalysts: A kinetic investigation. <i>Journal of Molecular Catalysis A</i> , 2009 , 307, 43-50		42
208	Engineering Aspects of Preparation of Nanocrystalline Particles in Microemulsions. <i>Journal of Nanoparticle Research</i> , 1999 , 1, 267-276	2.3	42
207	Pt/TiO ₂ photocatalysts deposited on commercial support for photocatalytic reduction of CO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 366, 72-80	4.7	41
206	Surface Carbon as a Reactive Intermediate in Dry Reforming of Methane to Syngas on a 5% Ni/MnO Catalyst. <i>ACS Catalysis</i> , 2018 , 8, 8739-8750	13.1	41
205	Sol-gel method for synthesis of Mn ₂ WO ₄ /SiO ₂ catalyst for methane oxidative coupling. <i>Catalysis Today</i> , 2014 , 236, 12-22	5.3	39
204	Comparison of phase transfer agents in the aqueous biphasic hydroformylation of higher alkenes. <i>Catalysis Science and Technology</i> , 2013 , 3, 600-605	5.5	39
203	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19797-19803	16.4	38
202	Recent developments in hydrogenation and hydroformylation in surfactant systems. <i>Catalysis Today</i> , 2015 , 247, 55-63	5.3	36
201	Silica material variation for the Mn _x O _y -Na ₂ WO ₄ /SiO ₂ . <i>Applied Catalysis A: General</i> , 2016 , 525, 168-179		35
200	Feasibility study of the Mn ₂ WO ₄ /SiO ₂ catalytic system for the oxidative coupling of methane in a fluidized-bed reactor. <i>Catalysis Science and Technology</i> , 2015 , 5, 942-952	5.5	34
199	Hydrogenation of Propyne in Palladium-Containing Polyacrylic Acid Membranes and Its Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 9064-9070	3.9	34
198	Characterization of Palladium Nanoparticles Adsorpt on Polyacrylic Acid Particles as Hydrogenation Catalyst. <i>Catalysis Letters</i> , 2004 , 95, 67-75	2.8	34
197	Hydroformylation in Microemulsions: Proof of Concept in a Miniplant. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8616-8626	3.9	33
196	Rhodium-Catalyzed Hydroformylation of Long-Chain Olefins in Aqueous Multiphase Systems in a Continuously Operated Miniplant. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11953-11960	3.9	32
195	Topology of silica supported vanadiumtitanium oxide catalysts for oxidative dehydrogenation of propane. <i>Catalysis Science and Technology</i> , 2012 , 2, 1346	5.5	32
194	Suzuki coupling reactions in three-phase microemulsions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1918-21	16.4	32
193	A novel technique for preparation of aminated polyimide membranes with microfiltration characteristics. <i>Journal of Membrane Science</i> , 2003 , 223, 171-185	9.6	32
192	Specifying Technology Readiness Levels for the Chemical Industry. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6957-6969	3.9	31

191	Ni _{0.05} Mn _{0.95} O catalysts for the dry reforming of methane. <i>Catalysis Today</i> , 2015 , 242, 111-118	5.3	31
190	Chemical looping as a reactor concept for the oxidative coupling of methane over the Mn _x O _y -Na ₂ WO ₄ /SiO ₂ catalyst, benefits and limitation. <i>Catalysis Today</i> , 2018 , 311, 40-47	5.3	31
189	Partial hydrogenation of sunflower oil in a membrane reactor. <i>Journal of Molecular Catalysis A</i> , 2007 , 271, 192-199		31
188	Hydroformylation in microemulsions: conversion of an internal long chain alkene into a linear aldehyde using a water soluble cobalt catalyst. <i>Catalysis Today</i> , 2003 , 79-80, 43-49	5.3	30
187	Mikroemulsionen als Medium für chemische Reaktionen. <i>Nachrichten Aus Der Chemie</i> , 1992 , 40, 1344-1352		29
186	Support effect in the preparation of supported metal catalysts via microemulsion. <i>RSC Advances</i> , 2014 , 4, 50955-50963	3.7	28
185	Kinetics of 1,5-Cyclooctadiene Hydrogenation on Pd/Al ₂ O ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1677-1681	3.9	28
184	Hydroformylation of 7-tetradecene using Rh-TPPTS in a microemulsion. <i>Applied Catalysis A: General</i> , 2002 , 236, 173-178	5.1	28
183	Stepwise Methane-to-Methanol Conversion on CuO/SBA-15. <i>Chemistry - A European Journal</i> , 2018 , 24, 12592-12599	4.8	28
182	New Polymer-Supported Catalysts for the Asymmetric Transfer Hydrogenation of Acetophenone in Water [Kinetic and Mechanistic Investigations. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 1335-1344	5.6	27
181	Experimental investigation of fluidized-bed reactor performance for oxidative coupling of methane. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 534-543		26
180	Comparison of oxidizing agents for the oxidative coupling of methane over state-of-the-art catalysts. <i>Applied Catalysis A: General</i> , 2012 , 417-418, 145-152	5.1	26
179	Reoxidation dynamics of highly dispersed VO _x species supported on alumina. <i>Applied Catalysis A: General</i> , 2009 , 353, 288-295	5.1	26
178	Catalytic isomerization of hydrophobic allylarenes in aqueous microemulsions. <i>Journal of Molecular Catalysis A</i> , 2011 , 335, 8-13		26
177	Immobilization of a Modified Tethered Rhodium(III)-p-Toluenesulfonyl-1,2-diphenylethylenediamine Catalyst on Soluble and Solid Polymeric Supports and Successful Application to Asymmetric Transfer Hydrogenation of Ketones. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 2497-2506	5.6	26
176	Photocatalytic reduction of CO ₂ to hydrocarbons by using photodeposited Pt nanoparticles on carbon-doped titania. <i>Catalysis Today</i> , 2019 , 328, 8-14	5.3	26
175	The role of lattice oxygen in the oxidative dehydrogenation of ethane on alumina-supported vanadium oxide. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 6119-24	3.6	25
174	Controlled Formation of Nickel Oxide Nanoparticles on Mesoporous Silica using Molecular Ni ₄ O ₄ Clusters as Precursors: Enhanced Catalytic Performance for Dry Reforming of Methane. <i>ChemCatChem</i> , 2015 , 7, 1280-1284	5.2	24

173	Process Design for the Separation of Three Liquid Phases for a Continuous Hydroformylation Process in a Miniplant Scale. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7259-7264	3.9	24
172	Characterisation and catalytic testing of VO /Al ₂ O ₃ catalysts for microstructured reactors. <i>Catalysis Communications</i> , 2008 , 9, 229-233	3.2	24
171	Steam reforming of methanol over Cu/ZnO/Al ₂ O ₃ modified with hydrotalcites. <i>Catalysis Communications</i> , 2007 , 8, 1684-1690	3.2	24
170	Chemical reactions in microemulsions: kinetics of the alkylation of 2-alkylindan-1,3-diones in microemulsions and polar organic solvents. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 847-851		24
169	Improving the Catalytic Activity in the Rhodium-Mediated Hydroformylation of Styrene by a Bis(N-heterocyclic silylene) Ligand. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 1284-1291	2.3	23
168	Understanding the Role of Nonionic Surfactants during Catalysis in Microemulsion Systems on the Example of Rhodium-Catalyzed Hydroformylation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9934-9941	3.9	23
167	Selection of systems for catalyst recovery by micellar enhanced ultrafiltration. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009 , 48, 356-363	3.7	23
166	Preparation of aminated microfiltration membranes by degradable functionalization using plain PEI membranes with various morphologies. <i>Journal of Membrane Science</i> , 2007 , 292, 145-157	9.6	23
165	The impact of nitrogen mobility on the activity of zirconium oxynitride catalysts for ammonia decomposition. <i>Journal of Catalysis</i> , 2007 , 250, 19-24	7.3	23
164	Techno-economic Assessment Framework for the Chemical Industry Based on Technology Readiness Levels. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8502-8517	3.9	23
163	Li/MgO with spin sensors as catalyst for the oxidative coupling of methane. <i>Catalysis Communications</i> , 2012 , 18, 132-136	3.2	22
162	Dependence of the Heck coupling in aqueous microemulsion by supported palladium acetate on the surfactant and on the hydrophobicity of the support. <i>Journal of Molecular Catalysis A</i> , 2010 , 323, 65-69		22
161	Impact of preparation method on physico-chemical and catalytic properties of VO _x /Al ₂ O ₃ materials. <i>Journal of Molecular Catalysis A</i> , 2008 , 293, 45-52		22
160	p-Methylstyrene hydrogenation in a flow-through membrane reactor. <i>AIChE Journal</i> , 2006 , 52, 2805-2811	3.6	22
159	Candida Rugosa lipase reactions in nonionic w/o-microemulsion with a technical surfactant. <i>Enzyme and Microbial Technology</i> , 2001 , 28, 42-48	3.8	22
158	In situ observation of pH change during water splitting in neutral pH conditions: impact of natural convection driven by buoyancy effects. <i>Energy and Environmental Science</i> , 2020 , 13, 5104-5116	35.4	22
157	Characterization and Quantification of Reduced Sites on Supported Vanadium Oxide Catalysts by Using High-Frequency Electron Paramagnetic Resonance. <i>ChemCatChem</i> , 2012 , 4, 641-652	5.2	21
156	Enzyme catalysis in reverse micelles. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2002 , 75, 185-208		21

155	Enzymatic reduction of a less water-soluble ketone in reverse micelles with NADH regeneration. <i>Biotechnology and Bioengineering</i> , 1999 , 65, 357-62	4.9	21
154	Adsorption of non-ionic surfactant from aqueous solution onto various ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2015 , 493, 120-133	9.6	20
153	Rhodium catalyzed hydroformylation of 1-octene in microemulsion: comparison with various catalytic systems. <i>Catalysis Letters</i> , 2006 , 110, 195-201	2.8	20
152	Revealing the Mechanism of Multiwalled Carbon Nanotube Growth on Supported Nickel Nanoparticles by in Situ Synchrotron X-ray Diffraction, Density Functional Theory, and Molecular Dynamics Simulations. <i>ACS Catalysis</i> , 2019 , 9, 6999-7011	13.1	19
151	Development of a continuous process for the hydroformylation of long-chain olefins in aqueous multiphase systems. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 67, 130-135	3.7	19
150	Comparison of the Activity of a Rhodium-Biphephos Catalyst in Thermomorphic Solvent Mixtures and Microemulsions. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1055-1064	2	19
149	A new method to synthesize very active and stable supported metal Pt catalysts: thermo-destabilization of microemulsions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11605		19
148	A pore-flow-through membrane reactor for partial hydrogenation of 1,5-cyclooctadiene. <i>AIChE Journal</i> , 2008 , 54, 258-268	3.6	19
147	Superior catalyst recycling in surfactant based multiphase systems [Quo vadis catalyst complex?]. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 99, 155-166	3.7	18
146	Catalytic Activity of Mono- and Bi-Metallic Nanoparticles Synthesized via Microemulsions. <i>Catalysts</i> , 2014 , 4, 256-275	4	18
145	Catalytic Hydrogenation of Dimethyl Itaconate in a Water/Cyclohexane/Triton X-100 Microemulsion in Comparison to a Biphasic System. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7586-7592	3.9	18
144	Kinetik der Umesterung von Ethanol und Butylacetat [Ein Modellsystem für die Reaktivrektifikation. <i>Chemie-Ingenieur-Technik</i> , 1999 , 71, 704-708	0.8	18
143	Characteristics of Stable Pickering Emulsions under Process Conditions. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1806-1814	0.8	17
142	A novel process concept for the three step Boscalid synthesis. <i>RSC Advances</i> , 2016 , 6, 58279-58287	3.7	17
141	Reaction kinetics of rhodium catalysed hydrogenations in micellar solutions. <i>Catalysis Today</i> , 2003 , 79-80, 401-408	5.3	17
140	Pd nanoparticles confined in mesoporous N-doped carbon silica supports: a synergistic effect between catalyst and support. <i>Catalysis Science and Technology</i> , 2020 , 10, 1385-1394	5.5	16
139	CFD Simulation of Oxidative Coupling of Methane in Fluidized-Bed Reactors: A Detailed Analysis of Flow-Reaction Characteristics and Operating Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1149-1163	3.9	16
138	Palladium catalyzed methoxycarbonylation of 1-dodecene in biphasic systems [Optimization of catalyst recycling. <i>Molecular Catalysis</i> , 2017 , 439, 1-8	3.3	16

137	The Catalytic Activity of Zinc Oxides from Single Source Precursors with Additives for the C ₂ H ₄ Activation of Lower Alkanes. <i>Catalysis Letters</i> , 2009 , 131, 258-265	2.8	16
136	Synthesis of manganite perovskite Ca _{0.5} Sr _{0.5} MnO ₃ nanoparticles in w/o-microemulsion. <i>Materials Research Bulletin</i> , 2006 , 41, 333-339	5.1	16
135	Catalysis of a β-elimination applying membranes with incorporated molecularly imprinted polymer particles. <i>Polymer Bulletin</i> , 2005 , 55, 287-297	2.4	16
134	Urea and green tea like precursors for the preparation of g-C ₃ N ₄ based carbon nanomaterials (CNMs) composites as photocatalysts for photodegradation of pollutants under UV light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 398, 112596	4.7	16
133	Catalytic Reactions in Aqueous Surfactant-Free Multiphase Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12765-12775	3.9	16
132	Magnetic Properties of Reduced and Reoxidized Mn _{0.5} Na ₂ WO ₄ /SiO ₂ : A Catalyst for Oxidative Coupling of Methane (OCM). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22605-22614	3.8	16
131	Dynamic real-time optimization under uncertainty of a hydroformylation mini-plant. <i>Computers and Chemical Engineering</i> , 2017 , 106, 836-848	4	15
130	Niobium: Activator and Stabilizer for a Copper-Based Deacon Catalyst. <i>ChemCatChem</i> , 2014 , 6, 245-254	5.2	15
129	Quasi-homogeneous hydrogenation with platinum and palladium nanoparticles stabilized by dendritic core-multishell architectures. <i>Langmuir</i> , 2011 , 27, 6511-8	4	15
128	Methane Activation over Cellulose Templated Perovskite Catalysts. <i>ChemCatChem</i> , 2011 , 3, 1354-1358	5.2	15
127	Mizellare Lösungen und Mikroemulsionen als Reaktionsmedien für katalytische Reaktionen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1343-1355	0.8	15
126	Modeling of Semibatch Esterification Process for Poly(ethylene terephthalate) Synthesis. <i>Macromolecular Reaction Engineering</i> , 2007 , 1, 502-512	1.5	15
125	Glycerolysis of Fatty Acid Methyl Esters: 1. Investigations in a Batch Reactor. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2007 , 84, 83-90	1.8	15
124	A Single-Source Precursor Approach to Self-Supported Nickel-Manganese-Based Catalysts with Improved Stability for Effective Low-Temperature Dry Reforming of Methane. <i>ChemPlusChem</i> , 2016 , 81, 370-377	2.8	15
123	Systematic Phase Separation Analysis of Surfactant-Containing Systems for Multiphase Settler Design. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3205-3217	3.9	14
122	Investigation of sol-gel supported palladium catalysts for Heck coupling reactions in o/w-microemulsions. <i>Journal of Molecular Catalysis A</i> , 2014 , 393, 210-221		14
121	Impact of the reaction conditions on the photocatalytic reduction of water on mesoporous polymeric carbon nitride under sunlight irradiation. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10108-10120	6.7	14
120	On the design, development and operation of an energy efficient CO ₂ removal for the oxidative coupling of methane in a miniplant scale. <i>Applied Thermal Engineering</i> , 2012 , 43, 141-147	5.8	14

119	Homogeneous Stabilization of Pt Nanoparticles in Dendritic Core-Multishell Architectures: Application in Catalytic Hydrogenation Reactions and Recycling. <i>ChemCatChem</i> , 2010 , 2, 863-870	5.2	14
118	The Kinetics of an Interfacial Reaction in a Microemulsion. <i>Chemical Engineering and Technology</i> , 1998 , 21, 666-670	2	14
117	Poly(vinyl alcohol) Ultrafiltration Membranes: Synthesis, Characterization, the Use for Enzyme Immobilization. <i>Engineering in Life Sciences</i> , 2003 , 3, 446-452	3.4	14
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