

Reinhard Schomcker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Transition-Metal-Doping of CaO as Catalyst for the OCM Reaction, a Reality Check.. <i>Frontiers in Chemistry</i> , 2022 , 10, 768426	5	2
261	Photocatalytic hydrogenation of acetophenone on a titanium dioxide cellulose film.. <i>RSC Advances</i> , 2022 , 12, 7055-7065	3.7	0
260	The closer the better? Theoretical assessment of the impact of catalytic site separation for bifunctional core-shell catalyst particles. <i>Chemical Engineering Journal</i> , 2022 , 136891	14.7	0
259	Correlation of performance data of silica particle flotations and foaming properties of cationic and nonionic surfactants for the development of selection criteria for flotation auxiliaries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 129159	5.1	1
258	Rh-Catalyzed Reductive Amination of Undecanal in an Aqueous Microemulsion System Using a Non-Ionic Surfactant. <i>Catalysts</i> , 2021 , 11, 1223	4	0
257	Immobilization of TiO ₂ Semiconductor Nanoparticles onto Posidonia Oceanica Fibers for Photocatalytic Phenol Degradation. <i>Water (Switzerland)</i> , 2021 , 13, 2948	3	2
256	New composite material based on Kaolinite, cement, TiO for efficient removal of phenol by photocatalysis. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 35991-36003	5.1	2
255	Deriving Economic Potential and GHG Emissions of Steel Mill Gas for Chemical Industry. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	1
254	Ruthenium nanoparticles supported on carbon-based nanoallotropes as co-catalyst to enhance the photocatalytic hydrogen evolution activity of carbon nitride. <i>Renewable Energy</i> , 2021 , 168, 668-675	8.1	3
253	Photocatalytic CO ₂ Reduction and Beyond 2021 , 287-302		
252	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19797-19803	16.4	38
251	Integration of techno-economic and life cycle assessment: Defining and applying integration types for chemical technology development. <i>Journal of Cleaner Production</i> , 2021 , 287, 125021	10.3	9
250	Apples and Apples: A Shortcut Assessment Framework for Early-Stage Carbon Capture and Utilization Technologies Based on Efficiency, Feasibility, and Risk. <i>Energy Technology</i> , 2021 , 9, 2000691	3.5	3
249	The quantitative impact of fluid solid interfaces on the catalytic performance of pickering emulsions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2355-2367	3.6	5
248	Ionic Liquids as Surfactants in Aqueous Multiphase Systems for the Pd-Catalyzed Hydrocarboxylation . <i>Chemie-Ingenieur-Technik</i> , 2021 , 93, 201-207	0.8	1
247	Silicon oxycarbonitride ceramic containing nickel nanoparticles: from design to catalytic application. <i>Materials Advances</i> , 2021 , 2, 1715-1730	3.3	2
246	Rational design of tandem catalysts using a core-shell structure approach. <i>Nanoscale Advances</i> , 2021 , 3, 3454-3459	5.1	6

245	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021 , 133, 19950-19956	3.6	4
244	Assessing the Realizable Flexibility Potential of Electrochemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 13637-13660	3.9	3
243	Multi-Scale Analysis of Integrated C1 (CH4 and CO2) Utilization Catalytic Processes: Impacts of Catalysts Characteristics up to Industrial-Scale Process Flowsheeting, Part II: Techno-Economic Analysis of Integrated C1 Utilization Process Scenarios. <i>Catalysts</i> , 2020 , 10, 488	4	1
242	Multi-Scale Analysis of Integrated C1 (CH4 and CO2) Utilization Catalytic Processes: Impacts of Catalysts Characteristics up to Industrial-Scale Process Flowsheeting, Part I: Experimental Analysis of Catalytic Low-Pressure CO2 to Methanol Conversion. <i>Catalysts</i> , 2020 , 10, 505	4	3
241	Kinetic Investigation of Polyurethane Rubber Formation from CO2-Containing Polyols. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 199-208	0.8	1
240	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
239	Techno-Economic Assessment Guidelines for CO2 Utilization. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	45
238	Reaktoren für Fluid-Feststoff-Reaktionen: Schleifenreaktor (Chemical Looping Reactor). <i>Springer Reference Naturwissenschaften</i> , 2020 , 697-722	0.2	
237	Urea and green tea like precursors for the preparation of g-C3N4 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
236	The dynamics of surface adsorption and foam formation of carbonate modified nonionic surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 588, 124386	5.1	7
235	Techno-economic assessment of CO2-containing polyurethane rubbers. <i>Journal of CO2 Utilization</i> , 2020 , 36, 153-168	7.6	2
234	Changes in Phase Behavior from the Substitution of Ethylene Oxide with Carbon Dioxide in the Head Group of Nonionic Surfactants. <i>ChemSusChem</i> , 2020 , 13, 601-607	8.3	6
233	Confinement of Cobalt Species in Mesoporous N-Doped Carbons and the Impact on Nitroarene Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11171-11182	8.3	5
232	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
231	Preparation of NiO nanoparticles in mesoporous silica via eutectic freezing and freeze-drying of aqueous precursor salts. <i>Microporous and Mesoporous Materials</i> , 2020 , 304, 109136	5.3	2
230	Impact of operating conditions for the continuous-flow degradation of diclofenac with immobilized carbon nitride photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 388, 112182	4.7	10
229	XPS studies on dispersed and immobilised carbon nitrides used for dye degradation. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 1833-1839	4.2	11
228	The hydrophilic-lipophilic balance of carboxylate and carbonate modified nonionic surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 569, 156-163	5.1	12

227	Kinetics of Hydroformylation of 1-Dodecene in Microemulsion Systems Using a Rhodium Sulfoxantphos Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4443-4453	3.9	7
226	Specifying Technology Readiness Levels for the Chemical Industry. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6957-6969	3.9	31
225	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
224	Reaktoren für Fluid-Feststoff-Reaktionen: Schleifenreaktor (Chemical Looping Reactor). <i>Springer Reference Naturwissenschaften</i> , 2019 , 1-26	0.2	
223	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
222	Antioxidant as Structure Directing Agent in Nanocatalyst Preparation. Case Study: Catalytic Activity of Supported Pt Nanocatalyst in Levulinic Acid Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2460-2470	3.9	11
221	Oxygen Activation in Oxidative Coupling of Methane on Calcium Oxide. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8018-8026	3.8	10
220	Synergistic Effects of a Rhodium Catalyst on Particle-Stabilized Pickering Emulsions for the Hydroformylation of a Long-Chain Olefin. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2524-2536 ¹⁴	3.9	14
219	Catalytic Activity of Ceramic Honeycombs in the Exhaust Gas Oxidation of a Waste Treatment Plant. <i>Chemical Engineering and Technology</i> , 2019 , 42, 422-431	2	2
218	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
217	Investigation into Consecutive Reactions of Ethane and Ethene Under the OCM Reaction Conditions over Mn _x O _y /Na ₂ WO ₄ /SiO ₂ Catalyst. <i>Catalysis Letters</i> , 2018 , 148, 1659-1675	2.8	10
216	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
215	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
214	Photocatalytic reduction of carbon dioxide over Cu/TiO photocatalysts. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 34903-34911	5.1	12
213	Photocatalytic CO ₂ Reduction by Mesoporous Polymeric Carbon Nitride Photocatalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 5636-5644	1.3	10
212	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
211	Multiphasic aqueous hydroformylation of 1-alkenes with micelle-like polymer particles as phase transfer agents.. <i>RSC Advances</i> , 2018 , 8, 23332-23338	3.7	10
210	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

209	Palladium-Catalyzed Methoxycarbonylation of 1-Dodecene in a Two-Phase System: The Path toward a Continuous Process. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8884-8894	3.9	5
208	Colloidal polymer particles as catalyst carriers and phase transfer agents in multiphasic hydroformylation reactions. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 638-646	9.3	8
207	Thermodynamic prediction of the solvent effect on a transesterification reaction. <i>Chemical Engineering Science</i> , 2018 , 176, 264-269	4.4	8
206	Comparison of Commercial Nanosized Titania Particles for the Degradation of Diclofenac. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7952-7959	1.3	3
205	Palladium-Catalyzed Hydroxycarbonylation of 1-Dodecene in Microemulsion Systems: Does Reaction Performance Care about Phase Behavior?. <i>ACS Omega</i> , 2018 , 3, 13355-13364	3.9	6
204	Magnetic Properties of Reduced and Reoxidized MnNa 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
203	Alkaline Hydrolysis of Methyl Decanoate in Surfactant-Based Systems. <i>Journal of Organic Chemistry</i> , 2018 , 83, 7398-7406	4.2	6
202	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
201	Stepwise Methane-to-Methanol Conversion on CuO/SBA-15. <i>Chemistry - A European Journal</i> , 2018 , 24, 12592-12599	4.8	28
200	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
199	Dynamic real-time optimization under uncertainty of a hydroformylation mini-plant. <i>Computers and Chemical Engineering</i> , 2017 , 106, 836-848	4	15
198	Fast tuning of covalent triazine frameworks for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2017 , 53, 5854-5857	5.8	162
197	Li/MgO Catalysts Doped with Alio-valent Ions. Part II: Local Topology Unraveled by EPR/NMR and DFT Modeling. <i>ChemCatChem</i> , 2017 , 9, 3597-3610	5.2	10
196	Li/MgO Catalysts Doped with Alio-valent Ions. Part I: Structure, Composition, and Catalytic Properties. <i>ChemCatChem</i> , 2017 , 9, 3583-3596	5.2	11
195	Assessing Early-Stage CO ₂ utilization Technologies: Comparing Apples and Oranges?. <i>Energy Technology</i> , 2017 , 5, 850-860	3.5	42
194	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
193	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
192	Microemulsion Systems as Switchable Reaction Media for the Catalytic Upgrading of Long-Chain Alkenes. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 459-463	0.8	7

191	New Ligands 2017 , 809-950		0
190	Palladium catalyzed methoxycarbonylation of 1-dodecene in biphasic systems [Optimization of catalyst recycling. <i>Molecular Catalysis</i> , 2017 , 439, 1-8	3.3	16
189	Halloysites Stabilized Emulsions for Hydroformylation of Long Chain Olefins. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600435	4.6	52
188	Hydroformylation in Microemulsions: Proof of Concept in a Miniplant. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8616-8626	3.9	33
187	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
186	Characteristics of Stable Pickering Emulsions under Process Conditions. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1806-1814	0.8	17
185	A novel process concept for the three step Boscalid synthesis. <i>RSC Advances</i> , 2016 , 6, 58279-58287	3.7	17
184	Donor-Acceptor-Type Heptazine-Based Polymer Networks for Photocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2016 , 4, 744-750	3.5	85
183	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
182	Investigation of phase behaviour of selected chemical reaction mixtures in microemulsions for technical applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 494, 49-58 ^{5.1}		10
181	Verteilungsgleichgewichte von Liganden in mizellaren Lösungsmittelsystemen. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 119-127	0.8	9
180	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
179	Dynamic Real-time Optimization Under Uncertainty of a Hydroformylation Mini-plant. <i>Computer Aided Chemical Engineering</i> , 2016 , 2337-2342	0.6	
178	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
177	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
176	Catalytic Reactions in Aqueous Surfactant-Free Multiphase Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12765-12775	3.9	16
175	Chemical looping as reactor concept for the oxidative coupling of methane over a Na ₂ WO ₄ /Mn/SiO ₂ catalyst. <i>Chemical Engineering Journal</i> , 2016 , 306, 646-654	14.7	46
174	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

173	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
172	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
171	Mesoporous carbon nitride-tungsten oxide composites for enhanced photocatalytic hydrogen evolution. <i>ChemSusChem</i> , 2015 , 8, 1404-10	8.3	88
170	Direct condensation of lactic acid in the presence or absence of supported zirconium sulfate. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	1
169	Brazil's current and future land balances: Is there residual land for bioenergy production?. <i>Biomass and Bioenergy</i> , 2015 , 81, 452-461	5.3	12
168	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
167	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
166	Microemulsion systems for catalytic reactions and processes. <i>Catalysis Science and Technology</i> , 2015 , 5, 24-33	5.5	57
165	Recent developments in hydrogenation and hydroformylation in surfactant systems. <i>Catalysis Today</i> , 2015 , 247, 55-63	5.3	36
164	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
163	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
162	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
161	Support material variation for the Mn _x O _y -Na ₂ WO ₄ /SiO ₂ catalyst. <i>Catalysis Today</i> , 2014 , 228, 5-14	5.3	56
160	Cyclotrimerization of alkynes vs. ketone formation in aqueous microemulsion. <i>Journal of Molecular Catalysis A</i> , 2014 , 382, 93-98		9
159	Sol-gel immobilized catalyst systems for tandem transformations with trans-stilbene as an intermediate. <i>Catalysis Communications</i> , 2014 , 53, 1-4	3.2	3
158	Support effect in the preparation of supported metal catalysts via microemulsion. <i>RSC Advances</i> , 2014 , 4, 50955-50963	3.7	28
157	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
156	Applying thermo-destabilization of microemulsions as a new method for co-catalyst loading on mesoporous polymeric carbon nitride towards large scale applications. <i>RSC Advances</i> , 2014 , 4, 50017-50026	3.7	9

155	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
154	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
153	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
152	Towards a novel process concept for the hydroformylation of higher alkenes: Mini-plant operation strategies via model development and optimal experimental design. <i>Chemical Engineering Science</i> , 2014 , 115, 127-138	4.4	8
151	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
150	Thermal Reaction Analysis of Oxidative Coupling of Methane. <i>Chemie-Ingenieur-Technik</i> , 2014 , 86, 1906-1915	5	8
149	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
148	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
147	Niobium: Activator and Stabilizer for a Copper-Based Deacon Catalyst. <i>ChemCatChem</i> , 2014 , 6, 245-254	5.2	15
146	Catalytic Activity of Mono- and Bi-Metallic Nanoparticles Synthesized via Microemulsions. <i>Catalysts</i> , 2014 , 4, 256-275	4	18
145	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
144	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
143	Quantification of photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3466-3472	3.7	59
142	Particle shape optimization by changing from an isotropic to an anisotropic nanostructure: preparation of highly active and stable supported Pt catalysts in microemulsions. <i>Nanoscale</i> , 2013 , 5, 796-805	7.7	13
141	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
140	Stereoselective Condensation of L-Lactic Acid in Presence of Heterogeneous Catalysts. <i>Macromolecular Symposia</i> , 2013 , 333, 216-226	0.8	3
139	Adsorption and filtration behaviour of non-ionic surfactants during reverse micellar-enhanced ultrafiltration. <i>Journal of Membrane Science</i> , 2013 , 433, 80-87	9.6	7
138	Decarbonylation of water insoluble carboxaldehydes in aqueous microemulsions by some sol-gel entrapped catalysts. <i>Journal of Molecular Catalysis A</i> , 2013 , 380, 90-93		7

137	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
136	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
135	What Makes a Good Catalyst for the Deacon Process?. <i>ACS Catalysis</i> , 2013 , 3, 1034-1046	13.1	58
134	Catalytic transfer hydrogenation of hydrophobic substrates by water-insoluble hydrogen donors in aqueous microemulsions. <i>Journal of Molecular Catalysis A</i> , 2013 , 366, 210-214		11
133	Enantioselective hydrogenation of itaconic acid and its derivatives with sol-gel immobilized Rh/BPPM catalysts. <i>Journal of Molecular Catalysis A</i> , 2013 , 366, 359-367		13
132	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
131	Aufklärung der Stofftransportwege in mizellaren Mehrphasenreaktionen am Beispiel der Hydroformylierung. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, n/a-n/a	0.8	2
130	Entwicklung eines Reaktors zur standardisierten Quantifizierung der photokatalytischen Wasserstofferzeugung. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, 500-507	0.8	2
129	An integrated approach to Deacon chemistry on RuO ₂ -based catalysts. <i>Journal of Catalysis</i> , 2012 , 285, 273-284	7.3	104
128	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
127	Influence of Nonionic Surfactants on Reverse Micellar-Enhanced Ultrafiltration. <i>Procedia Engineering</i> , 2012 , 44, 1692-1694		
126	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
125	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
124	Katalyse in modifizierten Flüssig/flüssig-Mehrphasensystemen. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 1861-1872		4
123	Oxidative Coupling of Methane: Process Design, Development and Operation in a Mini-Plant Scale. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 1989-1996	0.8	11
122	Experimental investigation of fluidized-bed reactor performance for oxidative coupling of methane. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 534-543		26
121	Supported ZnO catalysts for the conversion of alkanes: About the metamorphosis of a heterogeneous catalyst. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 581-594		9
120	Partitioning of Substrate within Aqueous Micelle Systems by Using Dead-End and Cross Flow Membrane Filtrations. <i>Procedia Engineering</i> , 2012 , 33, 70-77		

119	Partition Coefficients of Itaconates in Aqueous-Micellar Solutions: Measurements and Predictions with COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1846-1852	3.9	10
118	A continuous hydroformylation process in a miniplant scale: equipment design for the separation of three liquid phases. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 710-714	0.6	1
117	Topology of silica supported vanadium-titanium oxide catalysts for oxidative dehydrogenation of propane. <i>Catalysis Science and Technology</i> , 2012 , 2, 1346	5.5	32
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