Reinhard SchomÃ¤cker

List of Publications by Year
in descending order

260 papers	9,897 citations	34100 52 h-index	51602 86 g-index
269 all docs	269 docs citations	269 times ranked	9638 citing authors

#	Article	IF	Citations
1	Diacetylene Functionalized Covalent Organic Framework (COF) for Photocatalytic Hydrogen Generation. Journal of the American Chemical Society, 2018, 140, 1423-1427.	13.7	646
2	Dilute lamellar and L3phases in the binary waterâ€"C12E5system. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2253-2261.	1.7	413
3	Microemulsions in Technical Processes. Chemical Reviews, 1995, 95, 849-864.	47.7	408
4	CO formation/selectivity for steam reforming of methanol with a commercial CuO/ZnO/Al2O3 catalyst. Applied Catalysis A: General, 2004, 259, 83-94.	4.3	280
5	Fast tuning of covalent triazine frameworks for photocatalytic hydrogen evolution. Chemical Communications, 2017, 53, 5854-5857.	4.1	206
6	A Critical Assessment of Li/MgO-Based Catalysts for the Oxidative Coupling of Methane. Catalysis Reviews - Science and Engineering, 2011, 53, 424-514.	12.9	205
7	Protonated Imineâ€Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2021, 60, 19797-19803.	13.8	171
8	Steam reforming of methanol over copper-containing catalysts: Influence of support material on microkinetics. Journal of Catalysis, 2007, 246, 177-192.	6.2	170
9	Thermoregulated Liquid/Liquid Catalyst Separation and Recycling. Advanced Synthesis and Catalysis, 2006, 348, 1485-1495.	4.3	139
10	Partial oxidation of ethanol on vanadia catalysts on supporting oxides with different redox properties compared to propane. Journal of Catalysis, 2012, 296, 120-131.	6.2	138
11	Steam reforming of methanol over Cu/ZrO/CeO catalysts: a kinetic study. Journal of Catalysis, 2005, 230, 464-475.	6.2	131
12	Oxidative Dehydrogenation of Ethane over Multiwalled Carbon Nanotubes. ChemCatChem, 2010, 2, 644-648.	3.7	130
13	Techno-Economic Assessment Guidelines for CO2 Utilization. Frontiers in Energy Research, 2020, 8, .	2.3	121
14	Analyses of polysaccharide fouling mechanisms during crossflow membrane filtration. Journal of Membrane Science, 2008, 308, 152-161.	8.2	118
15	Oxidative coupling of methaneâ€"A complex surface/gas phase mechanism with strong impact on the reaction engineering. Catalysis Today, 2014, 228, 212-218.	4.4	114
16	An integrated approach to Deacon chemistry on RuO2-based catalysts. Journal of Catalysis, 2012, 285, 273-284.	6.2	111
17	Nanostructured Manganese Oxides as Highly Active Water Oxidation Catalysts: A Boost from Manganese Precursor Chemistry. ChemSusChem, 2014, 7, 2202-2211.	6.8	110
18	Alumina coated nickel nanoparticles as a highly active catalyst for dry reforming of methane. Applied Catalysis B: Environmental, 2015, 179, 122-127.	20.2	108

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19	Liquidâ^'Liquid Phase Equilibrium in Glycerolâ^'Methanolâ^'Methyl Oleate and Glycerolâ^'Monooleinâ^'Methyl Oleate Ternary Systems. Industrial & Engineering Chemistry Research, 2006, 45, 3693-3696.	3.7	102
20	Donorâ€"Acceptorâ€Type Heptazineâ€Based Polymer Networks for Photocatalytic Hydrogen Evolution. Energy Technology, 2016, 4, 744-750.	3.8	102
21	Solid-State Ion-Exchanged Cu/Mordenite Catalysts for the Direct Conversion of Methane to Methanol. ACS Catalysis, 2017, 7, 1403-1412.	11.2	102
22	Oxidative dehydrogenation of propane over low-loaded vanadia catalysts: Impact of the support material on kinetics and selectivity. Journal of Molecular Catalysis A, 2008, 289, 28-37.	4.8	100
23	Mesoporous Carbon Nitrideâ€Tungsten Oxide Composites for Enhanced Photocatalytic Hydrogen Evolution. ChemSusChem, 2015, 8, 1404-1410.	6.8	98
24	Hydrogen Evolution Reaction in a Largeâ€Scale Reactor using a Carbon Nitride Photocatalyst under Natural Sunlight Irradiation. Energy Technology, 2015, 3, 1014-1017.	3.8	97
25	Investigation of the surface reaction network of the oxidative coupling of methane over Na2WO4/Mn/SiO2 catalyst by temperature programmed and dynamic experiments. Journal of Catalysis, 2016, 341, 91-103.	6.2	92
26	Hydroformylation of 1-dodecene using Rh-TPPTS in a microemulsion. Applied Catalysis A: General, 2002, 225, 239-249.	4.3	88
27	Anomalous reactivity of supported V2O5 nanoparticles for propane oxidative dehydrogenation: influence of the vanadium oxide precursor. Dalton Transactions, 2013, 42, 12644.	3.3	88
28	Lipase-catalysed ester synthesis in oil-continuous microemulsions. BBA - Proteins and Proteomics, 1987, 912, 278-282.	2.1	86
29	In situ surface coverage analysis of RuO2-catalysed HCl oxidation reveals the entropic origin of compensation in heterogeneous catalysis. Nature Chemistry, 2012, 4, 739-745.	13.6	85
30	Catalytic Membrane Reactors for Partial Oxidation Using Perovskite Hollow Fiber Membranes and for Partial Hydrogenation Using a Catalytic Membrane Contactor. Industrial & Engineering Chemistry Research, 2007, 46, 2286-2294.	3.7	80
31	Quantification of photocatalytic hydrogen evolution. Physical Chemistry Chemical Physics, 2013, 15, 3466.	2.8	80
32	Hydroformylation of 1â€Dodecene with Waterâ€Soluble Rhodium Catalysts with Bidentate Ligands in Multiphase Systems. ChemCatChem, 2013, 5, 1854-1862.	3.7	76
33	Investigation of the role of the Na2WO4/Mn/SiO2 catalyst composition in the oxidative coupling of methane by chemical looping experiments. Journal of Catalysis, 2018, 360, 102-117.	6.2	76
34	Specifying Technology Readiness Levels for the Chemical Industry. Industrial & Engineering Chemistry Research, 2019, 58, 6957-6969.	3.7	74
35	One-Pot Synthesis of Supported, Nanocrystalline Nickel Manganese Oxide for Dry Reforming of Methane. ACS Catalysis, 2013, 3, 224-229.	11.2	72
36	On the nanoparticle synthesis in microemulsions: detailed characterization of an applied reaction mixture. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 163, 3-15.	4.7	70

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37	What Makes a Good Catalyst for the Deacon Process?. ACS Catalysis, 2013, 3, 1034-1046.	11.2	69
38	Support material variation for the Mn O -Na2WO4/SiO2 catalyst. Catalysis Today, 2014, 228, 5-14.	4.4	69
39	Fluidized bed processing of sodium tungsten manganese catalysts for the oxidative coupling of methane. Chemical Engineering Journal, 2011, 168, 1352-1359.	12.7	68
40	Interaction of enzymes with surfactants in aqueous solution and in water-in-oil microemulsions. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 4203.	1.0	67
41	High-Surface-Area SBA-15 with Enhanced Mesopore Connectivity by the Addition of Poly(vinyl alcohol). Chemistry of Materials, 2011, 23, 2062-2067.	6.7	63
42	Microemulsion systems for catalytic reactions and processes. Catalysis Science and Technology, 2015, 5, 24-33.	4.1	63
43	Chemical looping as reactor concept for the oxidative coupling of methane over a Na 2 WO 4 /Mn/SiO 2 catalyst. Chemical Engineering Journal, 2016, 306, 646-654.	12.7	63
44	Techno-economic Assessment Framework for the Chemical Industryâ€"Based on Technology Readiness Levels. Industrial & Engineering Chemistry Research, 2018, 57, 8502-8517.	3.7	63
45	Assessing Earlyâ€Stage CO₂ utilization Technologiesâ€"Comparing Apples and Oranges?. Energy Technology, 2017, 5, 850-860.	3.8	62
46	Surface Carbon as a Reactive Intermediate in Dry Reforming of Methane to Syngas on a 5% Ni/MnO Catalyst. ACS Catalysis, 2018, 8, 8739-8750.	11.2	60
47	Li-doped MgO From Different Preparative Routes for the Oxidative Coupling of Methane. Topics in Catalysis, 2011, 54, 1266-1285.	2.8	59
48	Pt/TiO2 photocatalysts deposited on commercial support for photocatalytic reduction of CO2. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 72-80.	3.9	59
49	Halloysites Stabilized Emulsions for Hydroformylation of Long Chain Olefins. Advanced Materials Interfaces, 2017, 4, 1600435.	3.7	57
50	Mass and heat transfer effects on the oxidative dehydrogenation of propane (ODP) over a low loaded VOx/Al2O3 catalyst. Applied Catalysis A: General, 2007, 323, 66-76.	4.3	55
51	Stability and activity of alcohol dehydrogenases in W/O-microemulsions: Enantioselective reduction including cofactor regeneration. Biotechnology and Bioengineering, 2000, 70, 638-646.	3.3	54
52	COSMO-RS and UNIFAC in Prediction of Micelle/Water Partition Coefficients. Industrial & Engineering Chemistry Research, 2007, 46, 6501-6509.	3.7	53
53	<i>In situ</i> observation of pH change during water splitting in neutral pH conditions: impact of natural convection driven by buoyancy effects. Energy and Environmental Science, 2020, 13, 5104-5116.	30.8	53
54	Selectivity of partial hydrogenation reactions performed in a pore-through-flow catalytic membrane reactor. Catalysis Today, 2005, 104, 305-312.	4.4	50

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55	Rhodium catalyzed hydrogenation reactions in aqueous micellar systems as green solvents. RSC Advances, 2011, 1, 474.	3.6	50
56	High performance (VOx)nâ€“(TiOx)m/SBA-15 catalysts for the oxidative dehydrogenation of propane. Catalysis Science and Technology, 2014, 4, 786.	4.1	50
57	Catalysis of a Diels-Alder cycloaddition with differently fabricated molecularly imprinted polymers. Catalysis Communications, 2005, 6, 601-606.	3.3	49
58	Facile one-pot synthesis of Pt nanoparticles /SBA-15: an active and stable material for catalytic applications. Energy and Environmental Science, 2011, 4, 2020.	30.8	49
59	Engineering Aspects of Preparation of Nanocrystalline Particles in Microemulsions. Journal of Nanoparticle Research, 1999, 1, 267-276.	1.9	47
60	Solâ€“gel method for synthesis of Mnâ€“Na2WO4/SiO2 catalyst for methane oxidative coupling. Catalysis Today, 2014, 236, 12-22.	4.4	47
61	Potential of High-Frequency EPR for Investigation of Supported Vanadium Oxide Catalysts. Journal of Physical Chemistry C, 2008, 112, 17664-17671.	3.1	46
62	Oxidative dehydrogenation of propane on silica (SBA-15) supported vanadia catalysts: A kinetic investigation. Journal of Molecular Catalysis A, 2009, 307, 43-50.	4.8	45
63	Feasibility study of the Mnâ€“Na₂WO₄/SiO₂ catalytic system for the oxidative coupling of methane in a fluidized-bed reactor. Catalysis Science and Technology, 2015, 5, 942-952.	4.1	43
64	Comparison of phase transfer agents in the aqueous biphasic hydroformylation of higher alkenes. Catalysis Science and Technology, 2013, 3, 600-605.	4.1	42
65	Silica material variation for the MnxOy-Na2WO4/SiO2. Applied Catalysis A: General, 2016, 525, 168-179.	4.3	41
66	Stepwise Methaneâ€toâ€Methanol Conversion on CuO/SBAâ€15. Chemistry - A European Journal, 2018, 24, 12592-12599.	3.3	41
67	A novel technique for preparation of aminated polyimide membranes with microfiltration characteristics. Journal of Membrane Science, 2003, 223, 171-185.	8.2	39
68	Chemical looping as a reactor concept for the oxidative coupling of methane over the MnxOy-Na2WO4/SiO2 catalyst, benefits and limitation. Catalysis Today, 2018, 311, 40-47.	4.4	39
69	Reoxidation dynamics of highly dispersed VOx species supported on Î^{3}-alumina. Applied Catalysis A: General, 2009, 353, 288-295.	4.3	38
70	Support effect in the preparation of supported metal catalysts <i>via</i> microemulsion. RSC Advances, 2014, 4, 50955-50963.	3.6	38
71	Photocatalytic reduction of CO2 to hydrocarbons by using photodeposited Pt nanoparticles on carbon-doped titania. Catalysis Today, 2019, 328, 8-14.	4.4	38
72	Integration of techno-economic and life cycle assessment: Defining and applying integration types for chemical technology development. Journal of Cleaner Production, 2021, 287, 125021.	9.3	38

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73	Characterization of Palladium Nanoparticles Adsorpt on Polyacrylic Acid Particles as Hydrogenation Catalyst. Catalysis Letters, 2004, 95, 67-75.	2.6	37
74	Ni0.05Mn0.95O catalysts for the dry reforming of methane. Catalysis Today, 2015, 242, 111-118.	4.4	37
75	Recent developments in hydrogenation and hydroformylation in surfactant systems. Catalysis Today, 2015, 247, 55-63.	4.4	37
76	Hydrogenation of Propyne in Palladium-Containing Polyacrylic Acid Membranes and Its Characterization. Industrial & Engineering Chemistry Research, 2005, 44, 9064-9070.	3.7	36
77	Suzuki Coupling Reactions in Threeâ€Phase Microemulsions. Angewandte Chemie - International Edition, 2011, 50, 1918-1921.	13.8	36
78	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. ACS Catalysis, 2019, 9, 6999-7011.	11.2	36
79	Hydroformylation in microemulsions: conversion of an internal long chain alkene into a linear aldehyde using a water soluble cobalt catalyst. Catalysis Today, 2003, 79-80, 43-49.	4.4	35
80	Topology of silica supported vanadiumâ€“titanium oxide catalysts for oxidative dehydrogenation of propane. Catalysis Science and Technology, 2012, 2, 1346.	4.1	35
81	Rhodium-Catalyzed Hydroformylation of Long-Chain Olefins in Aqueous Multiphase Systems in a Continuously Operated Miniplant. Industrial & Engineering Chemistry Research, 2015, 54, 11953-11960.	3.7	35
82	Hydroformylation in Microemulsions: Proof of Concept in a Miniplant. Industrial & Engineering Chemistry Research, 2016, 55, 8616-8626.	3.7	35
83	Mikroemulsionen als Medium fÃ¼r chemische Reaktionen. Nachrichten Aus Der Chemie, 1992, 40, 1344-1352.	0.0	34
84	Hydroformylation of 7-tetradecene using Rh-TPPTS in a microemulsion. Applied Catalysis A: General, 2002, 236, 173-178.	4.3	34
85	Partial hydrogenation of sunflower oil in a membrane reactor. Journal of Molecular Catalysis A, 2007, 271, 192-199.	4.8	33
86	The role of lattice oxygen in the oxidative dehydrogenation of ethane on alumina-supported vanadium oxide. Physical Chemistry Chemical Physics, 2009, 11, 6119.	2.8	32
87	Enzymatic reduction of a less water-soluble ketone in reverse micelles with nadh regeneration. Biotechnology and Bioengineering, 1999, 65, 357-362.	3.3	29
88	Kinetics of 1,5-Cyclooctadiene Hydrogenation on Pd/Î±-Al2O3. Industrial & Engineering Chemistry Research, 2007, 46, 1677-1681.	3.7	29
89	New Polymerâ€Supported Catalysts for the Asymmetric Transfer Hydrogenation of Acetophenone in Water â€" Kinetic and Mechanistic Investigations. Advanced Synthesis and Catalysis, 2011, 353, 1335-1344.	4.3	29
90	Comparison of oxidizing agents for the oxidative coupling of methane over state-of-the-art catalysts. Applied Catalysis A: General, 2012, 417-418, 145-152.	4.3	29

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91	Improving the Catalytic Activity in the Rhodiumâ€Mediated Hydroformylation of Styrene by a Bis(Nâ€heterocyclic silylene) Ligand. European Journal of Inorganic Chemistry, 2017, 2017, 1284-1291.	2.0	29
92	Chemical reactions in microemulsions: kinetics of the alkylation of 2-alkylindan-1,3-diones in microemulsions and polar organic solvents. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 847-851.	1.7	28
93	Experimental investigation of fluidized-bed reactor performance for oxidative coupling of methane. Journal of Natural Gas Chemistry, 2012, 21, 534-543.	1.8	28
94	Process Design for the Separation of Three Liquid Phases for a Continuous Hydroformylation Process in a Miniplant Scale. Industrial & Engineering Chemistry Research, 2013, 52, 7259-7264.	3.7	28
95	Adsorption of non-ionic surfactant from aqueous solution onto various ultrafiltration membranes. Journal of Membrane Science, 2015, 493, 120-133.	8.2	28
96	Candida Rugosa lipase reactions in nonionic w/o-microemulsion with a technical surfactant. Enzyme and Microbial Technology, 2001, 28, 42-48.	3.2	27
97	The impact of nitrogen mobility on the activity of zirconium oxynitride catalysts for ammonia decomposition. Journal of Catalysis, 2007, 250, 19-24.	6.2	27
98	Selection of systems for catalyst recovery by micellar enhanced ultrafiltration. Chemical Engineering and Processing: Process Intensification, 2009, 48, 356-363.	3.6	27
99	Immobilization of a Modified Tethered Rhodium(III)â€<i>p</i>â€Toluenesulfonylâ€1,2â€diphenylethylenediamine Catalyst on Soluble and Solid Polymeric Supports and Successful Application to Asymmetric Transfer Hydrogenation of Ketones. Advanced Synthesis and Catalysis, 2010, 352, 2497-2506.	4.3	27
100	Understanding the Role of Nonionic Surfactants during Catalysis in Microemulsion Systems on the Example of Rhodium-Catalyzed Hydroformylation. Industrial & Engineering Chemistry Research, 2017, 56, 9934-9941.	3.7	27
101	Pd nanoparticles confined in mesoporous N-doped carbon silica supports: a synergistic effect between catalyst and support. Catalysis Science and Technology, 2020, 10, 1385-1394.	4.1	27
102	Steam reforming of methanol over Cu/ZnO/Al2O3 modified with hydrotalcites. Catalysis Communications, 2007, 8, 1684-1690.	3.3	26
103	Catalytic isomerization of hydrophobic allylarenes in aqueous microemulsions. Journal of Molecular Catalysis A, 2011, 335, 8-13.	4.8	26
104	Li/MgO with spin sensors as catalyst for the oxidative coupling of methane. Catalysis Communications, 2012, 18, 132-136.	3.3	26
105	Enzyme Catalysis in Reverse Micelles. Advances in Biochemical Engineering/Biotechnology, 2002, 75, 185-208.	1.1	25
106	Preparation of aminated microfiltration membranes by degradable functionalization using plain PEI membranes with various morphologies. Journal of Membrane Science, 2007, 292, 145-157.	8.2	25
107	Characterisation and catalytic testing of VO /Al2O3 catalysts for microstructured reactors. Catalysis Communications, 2008, 9, 229-233.	3.3	25
108	A new method to synthesize very active and stable supported metal Pt catalysts: thermo-destabilization of microemulsions. Journal of Materials Chemistry, 2012, 22, 11605.	6.7	25

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109	Controlled Formation of Nickel Oxide Nanoparticles on Mesoporous Silica using Molecular Ni₄O₄ Clusters as Precursors: Enhanced Catalytic Performance for Dry Reforming of Methane. ChemCatChem, 2015, 7, 1280-1284.	3.7	25
110	Photocatalytic reduction of carbon dioxide over Cu/TiO2 photocatalysts. Environmental Science and Pollution Research, 2018, 25, 34903-34911.	5.3	25
111	Confinement of Cobalt Species in Mesoporous N-Doped Carbons and the Impact on Nitroarene Hydrogenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 11171-11182.	6.7	25
112	Î±-methylstyrene hydrogenation in a flow-through membrane reactor. AICHE Journal, 2006, 52, 2805-2811.	3.6	24
113	Magnetic Properties of Reduced and Reoxidized Mnâ€"Na₂WO₄/SiO₂: A Catalyst for Oxidative Coupling of Methane (OCM). Journal of Physical Chemistry C, 2018, 122, 22605-22614.	3.1	24
114	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. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 398, 112596.	3.9	23
115	Kinetik der Umesterung von Ethanol und Butylacetat - Ein Modellsystem fÃ¼r die Reaktivrektifikation. Chemie-Ingenieur-Technik, 1999, 71, 704-708.	0.8	22
116	Impact of preparation method on physico-chemical and catalytic properties of VOx/Î³-Al2O3 materials. Journal of Molecular Catalysis A, 2008, 293, 45-52.	4.8	22
117	Dependence of the Heck coupling in aqueous microemulsion by supported palladium acetate on the surfactant and on the hydrophobicity of the support. Journal of Molecular Catalysis A, 2010, 323, 65-69.	4.8	22
118	Micellar Solutions and Microemulsions as Media for Catalytic Reactions. Chemie-Ingenieur-Technik, 2011, 83, 1343-1355.	0.8	22
119	Characterization and Quantification of Reduced Sites on Supported Vanadium Oxide Catalysts by Using Highâ€Frequency Electron Paramagnetic Resonance. ChemCatChem, 2012, 4, 641-652.	3.7	22
120	Protonated Imineâ€Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2021, 133, 19950-19956.	2.0	22
121	Catalytic Hydrogenation of Dimethyl Itaconate in a Waterâ^'Cyclohexaneâ^'Triton X-100 Microemulsion in Comparison to a Biphasic System. Industrial & Engineering Chemistry Research, 2008, 47, 7586-7592.	3.7	21
122	Catalytic Activity of Mono- and Bi-Metallic Nanoparticles Synthesized via Microemulsions. Catalysts, 2014, 4, 256-275.	3.5	21
123	A novel process concept for the three step BoscalidÂ® synthesis. RSC Advances, 2016, 6, 58279-58287.	3.6	21
124	CFD Simulation of Oxidative Coupling of Methane in Fluidized-Bed Reactors: A Detailed Analysis of Flow-Reaction Characteristics and Operating Conditions. Industrial & Engineering Chemistry Research, 2016, 55, 1149-1163.	3.7	21
125	Palladium catalyzed methoxycarbonylation of 1-dodecene in biphasic systems â€" Optimization of catalyst recycling. Molecular Catalysis, 2017, 439, 1-8.	2.0	21
126	Rhodium catalyzed hydroformylation of 1-octene in microemulsion: comparison with various catalytic systems. Catalysis Letters, 2006, 110, 195-201.	2.6	20

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127	A poreâ€flowâ€through membrane reactor for partial hydrogenation of 1,5â€cyclooctadiene. AICHE Journal, 2008, 54, 258-268.	3.6	20
128	Development of a continuous process for the hydroformylation of long-chain olefins in aqueous multiphase systems. Chemical Engineering and Processing: Process Intensification, 2013, 67, 130-135.	3.6	20
129	Superior catalyst recycling in surfactant based multiphase systems â€“ Quo vadis catalyst complex?. Chemical Engineering and Processing: Process Intensification, 2016, 99, 155-166.	3.6	20
130	Synthesis of manganite perovskite Ca0.5Sr0.5MnO3 nanoparticles in w/o-microemulsion. Materials Research Bulletin, 2006, 41, 333-339.	5.2	19
131	Comparison of the Activity of a Rhodiumâ€Biphephos Catalyst in Thermomorphic Solvent Mixtures and Microemulsions. Chemical Engineering and Technology, 2014, 37, 1055-1064.	1.5	19
132	The hydrophilic-lipophilic balance of carboxylate and carbonate modified nonionic surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 569, 156-163.	4.7	19
133	Antioxidant as Structure Directing Agent in Nanocatalyst Preparation. Case Study: Catalytic Activity of Supported Pt Nanocatalyst in Levulinic Acid Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 2460-2470.	3.7	19
134	Synergistic Effects of a Rhodium Catalyst on Particle-Stabilized Pickering Emulsions for the Hydroformylation of a Long-Chain Olefin. Industrial & Engineering Chemistry Research, 2019, 58, 2524-2536.	3.7	19
135	Protonation of 1,3,5-triaminobenzenes in aqueous solutions. Thermodynamics and kinetics of the formation of stable .sigma.-complexes. Journal of the American Chemical Society, 1988, 110, 7484-7489.	13.7	18
136	Glycerolysis of Fatty Acid Methyl Esters: 1. Investigations in a Batch Reactor. JAOCS, Journal of the American Oil Chemists' Society, 2007, 84, 83-90.	1.9	18
137	Impact of the reaction conditions on the photocatalytic reduction of water on mesoporous polymeric carbon nitride under sunlight irradiation. International Journal of Hydrogen Energy, 2014, 39, 10108-10120.	7.1	18
138	Characteristics of Stable Pickering Emulsions under Process Conditions. Chemie-Ingenieur-Technik, 2016, 88, 1806-1814.	0.8	18
139	Dynamic real-time optimization under uncertainty of a hydroformylation mini-plant. Computers and Chemical Engineering, 2017, 106, 836-848.	3.8	18
140	Reaction kinetics of rhodium catalysed hydrogenations in micellar solutions. Catalysis Today, 2003, 79-80, 401-408.	4.4	17
141	Catalysis of a Î²-elimination applying membranes with incorporated molecularly imprinted polymer particles. Polymer Bulletin, 2005, 55, 287-297.	3.3	17
142	The Catalytic Activity of Zinc Oxides from Single Source Precursors with Additives for the Câ€“H Acitivation of Lower Alkanes. Catalysis Letters, 2009, 131, 258-265.	2.6	17
143	Methane Activation over Cellulose Templated Perovskite Catalysts. ChemCatChem, 2011, 3, 1354-1358.	3.7	17
144	Particle shape optimization by changing from an isotropic to an anisotropic nanostructure: preparation of highly active and stable supported Pt catalysts in microemulsions. Nanoscale, 2013, 5, 796-805.	5.6	17

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145	Brazil's current and future land balances: Is there residual land for bioenergy production?. Biomass and Bioenergy, 2015, 81, 452-461.	5.7	17
146	Modeling of Semibatch Esterification Process for Poly(ethylene terephthalate) Synthesis. Macromolecular Reaction Engineering, 2007, 1, 502-512.	1.5	16
147	On the design, development and operation of an energy efficient CO2 removal for the oxidative coupling of methane in a miniplant scale. Applied Thermal Engineering, 2012, 43, 141-147.	6.0	16
148	A Singleâ€Source Precursor Approach to Selfâ€Supported Nickelâ€“Manganeseâ€Based Catalysts with Improved Stability for Effective Lowâ€Temperature Dry Reforming of Methane. ChemPlusChem, 2016, 81, 370-377.	2.8	16
149	Catalytic Reactions in Aqueous Surfactant-Free Multiphase Emulsions. Industrial & Engineering Chemistry Research, 2016, 55, 12765-12775.	3.7	16
150	Photocatalytic CO₂ Reduction by Mesoporous Polymeric Carbon Nitride Photocatalysts. Journal of Nanoscience and Nanotechnology, 2018, 18, 5636-5644.	0.9	16
151	Oxygen Activation in Oxidative Coupling of Methane on Calcium Oxide. Journal of Physical Chemistry C, 2019, 123, 8018-8026.	3.1	16
152	Quasi-Homogeneous Hydrogenation with Platinum and Palladium Nanoparticles Stabilized by Dendritic Coreâ€“Multishell Architectures. Langmuir, 2011, 27, 6511-6518.	3.5	15
153	Niobium: Activator and Stabilizer for a Copperâ€Based Deacon Catalyst. ChemCatChem, 2014, 6, 245-254.	3.7	15
154	Systematic Phase Separation Analysis of Surfactant-Containing Systems for Multiphase Settler Design. Industrial & Engineering Chemistry Research, 2015, 54, 3205-3217.	3.7	15
155	Impact of operating conditions for the continuous-flow degradation of diclofenac with immobilized carbon nitride photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112182.	3.9	15
156	Ultrafiltration of Reverse Micelles in the Ternary System AOT/Isooctane/Water. Langmuir, 1996, 12, 2362-2366.	3.5	14
157	The Kinetics of an Interfacial Reaction in a Microemulsion. Chemical Engineering and Technology, 1998, 21, 666-670.	1.5	14
158	Poly(vinyl alcohol) Ultrafiltration Membranes: Synthesis, Characterization, the Use for Enzyme Immobilization. Engineering in Life Sciences, 2003, 3, 446-452.	3.6	14
159	Homogeneous Stabilization of Pt Nanoparticles in Dendritic Coreâ€“Multishell Architectures: Application in Catalytic Hydrogenation Reactions and Recycling. ChemCatChem, 2010, 2, 863-870.	3.7	14
160	Oxidative Coupling of Methane: Process Design, Development and Operation in a Miniâ€Plant Scale. Chemie-Ingenieur-Technik, 2012, 84, 1989-1996.	0.8	14
161	Investigation of solâ€“gel supported palladium catalysts for Heck coupling reactions in o/w-microemulsions. Journal of Molecular Catalysis A, 2014, 393, 210-221.	4.8	14
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