Suttichai Assabumrungrat

List of Publications by Citations

328 papers	7,079 citations	41 h-index	66 g-index
343 ext. papers	8,062 ext. citations	6.2 avg, IF	6.33 L-index

#	Paper	IF	Citations
328	Catalytic dry reforming of methane over high surface area ceria. *Applied Catalysis B: Environmental*, **2005**, 60, 107-116	21.8	256
327	Ceria-promoted Ni/SBA-15 catalysts for ethanol steam reforming with enhanced activity and resistance to deactivation. *Applied Catalysis B: Environmental*, **2015**, 176-177, 532-541	21.8	235
326	Catalytic steam reforming of methane, methanol, and ethanol over Ni/YSZ: The possible use of these fuels in internal reforming SOFC. *Journal of Power Sources*, **2007**, 163, 943-951	8.9	210
325	Synthesis gas production from dry reforming of methane over CeO2 doped Ni/Al2O3: Influence of the doping ceria on the resistance toward carbon formation. *Chemical Engineering Journal*, **2005**, 112, 13-22	14.7	195
324	Methane steam reforming over Ni/Ce□rO2 catalyst: Influences of Ce□rO2 support on reactivity, resistance toward carbon formation, and intrinsic reaction kinetics. *Applied Catalysis A: General*, **2005**, 290, 200-211	5.1	192
323	Catalytic steam reforming of ethanol over high surface area CeO2: The role of CeO2 as an internal pre-reforming catalyst. *Applied Catalysis B: Environmental*, **2006**, 66, 29-39	21.8	134
322	Roles of monometallic catalysts in hydrodeoxygenation of palm oil to green diesel. *Chemical Engineering Journal*, **2015**, 278, 249-258	14.7	130
321	Production of bio-hydrogenated diesel by catalytic hydrotreating of palm oil over NiMoS2/□Al2O3 catalyst. *Bioresource Technology*, **2014**, 158, 81-90	11	118
320	Diesel-like hydrocarbon production from hydroprocessing of relevant refining palm oil. *Fuel Processing Technology*, **2013**, 116, 16-26	7.2	97
319	Catalytic steam reforming of ethane and propane over CeO2-doped Ni/Al2O3 at SOFC temperature: Improvement of resistance toward carbon formation by the redox property of doping CeO2. *Fuel*, **2006**, 85, 323-332	7.1	90
318	Hydrogen production from steam and autothermal reforming of LPG over high surface area ceria. *Journal of Power Sources*, **2006**, 158, 1348-1357	8.9	86
317	Hydrogen Production via Sorption Enhanced Steam Methane Reforming Process Using Ni/CaO Multifunctional Catalyst. *Industrial & Engineering Chemistry Research*, **2011**, 50, 13662-13671	3.9	84
316	Biodiesel production in a novel continuous flow microwave reactor. *Renewable Energy*, **2015**, 83, 25-29	8.1	76
315	Oil extracted from spent coffee grounds for bio-hydrotreated diesel production. *Energy Conversion and Management*, **2016**, 126, 1028-1036	10.6	73
314	Techno-economic evaluation of different CO2-based processes for dimethyl carbonate production. *Chemical Engineering Research and Design*, **2015**, 93, 496-510	5.5	73
313	Effect of high surface area CeO2 and Ce-ZrO2 supports over Ni catalyst on CH4 reforming with H2O in the presence of O2, H2, and CO2. *Chemical Engineering Journal*, **2008**, 138, 264-273	14.7	73
312	Glycerol ethers synthesis from glycerol etherification with tert-butyl alcohol in reactive distillation. *Computers and Chemical Engineering*, **2011**, 35, 2034-2043	4	72

311	Thermodynamic analysis of biomass gasification with CO2 recycle for synthesis gas production. *Applied Energy*, **2014**, 114, 10-17	10.7	67
310	A modeling study on the effects of membrane characteristics and operating parameters on physical absorption of CO2 by hollow fiber membrane contactor. *Journal of Membrane Science*, **2011**, 380, 21-33	9.6	67
309	Reviews on Solid Oxide Fuel Cell Technology. *Engineering Journal*, **2009**, 13, 65-84	1.8	67
308	Thermodynamic study of hydrogen production from crude glycerol autothermal reforming for fuel cell applications. *International Journal of Hydrogen Energy*, **2010**, 35, 6617-6623	6.7	66
307	Catalytic behaviors of Ni/EAl2O3 and Co/EAl2O3 during the hydrodeoxygenation of palm oil. *Catalysis Science and Technology*, **2015**, 5, 3693-3705	5.5	64
306	Effects of humidity, O2, and CO2 on H2S adsorption onto upgraded and KOH impregnated activated carbons. *Fuel Processing Technology*, **2014**, 124, 249-257	7.2	58
305	Simultaneous absorption of CO2 and H2S from biogas by capillary membrane contactor. *Journal of Membrane Science*, **2012**, 392-393, 38-47	9.6	58
304	Comparison of carbon formation boundary in different modes of solid oxide fuel cells fueled by methane. *Journal of Power Sources*, **2005**, 142, 75-80	8.9	58
303	Process design of continuous biodiesel production by reactive distillation: Comparison between homogeneous and heterogeneous catalysts. *Chemical Engineering and Processing: Process Intensification*, **2015**, 92, 33-44	3.7	57
302	Steam reforming of ethanol with co-fed oxygen and hydrogen over Ni on high surface area ceria support. *Applied Catalysis A: General*, **2007**, 327, 180-188	5.1	54
301	Biodiesel production from palm oil using combined mechanical stirred and ultrasonic reactor. *Ultrasonics Sonochemistry*, **2014**, 21, 1585-91	8.9	53
300	Mathematical modeling and cascade design of hollow fiber membrane contactor for CO2 absorption by monoethanolamine. *Journal of Membrane Science*, **2012**, 401-402, 175-189	9.6	52
299	Selection of appropriate fuel processor for biogas-fuelled SOFC system. *Chemical Engineering Journal*, **2008**, 140, 341-351	14.7	51
298	Theoretical study on the synthesis of methyl acetate from methanol and acetic acid in pervaporation membrane reactors: effect of continuous-flow modes. *Chemical Engineering Journal*, **2003**, 95, 57-65	14.7	51
297	Ordered mesoporous Ni/La2O3 catalysts with interfacial synergism towards CO2 activation in dry reforming of methane. *Applied Catalysis B: Environmental*, **2019**, 259, 118092	21.8	48
296	The effect of specific surface area on the activity of nano-scale ceria catalysts for methanol decomposition with and without steam at SOFC operating temperatures. *Chemical Engineering Science*, **2006**, 61, 2540-2549	4.4	48
295	Exergoeconomics of hydrogen production from biomass air-steam gasification with methane co-feeding. *Energy Conversion and Management*, **2017**, 140, 228-239	10.6	46
294	Metals (Mg, Sr and Al) modified CaO based sorbent for CO 2 sorption/desorption stability in fixed bed reactor for high temperature application. *Chemical Engineering Journal*, **2016**, 284, 1212-1223	14.7	46

293	Determination of the boundary of carbon formation for dry reforming of methane in a solid oxide fuel cell. *Journal of Power Sources*, **2006**, 159, 1274-1282	8.9	46
292	Comparative study of oxidative coupling of methane modeling in various types of reactor. *Chemical Engineering Journal*, **2005**, 115, 63-71	14.7	46
291	Nickel sulfide, nickel phosphide and nickel carbide catalysts for bio-hydrotreated fuel production. *Energy Conversion and Management*, **2017**, 151, 324-333	10.6	45
290	Synthesis of methyl esters from relevant palm products in near-critical methanol with modified-zirconia catalysts. *Bioresource Technology*, **2010**, 101, 8416-23	11	45
289	Thermodynamic analysis of carbon formation in a solid oxide fuel cell with a direct internal reformer fuelled by methanol. *Journal of Power Sources*, **2005**, 139, 55-60	8.9	43
288	Performance evaluation of sorption enhanced chemical-looping reforming for hydrogen production from biomass with modification of catalyst and sorbent regeneration. *Chemical Engineering Journal*, **2016**, 303, 338-347	14.7	42
287	Role and advantages of H2S in catalytic steam reforming over nanoscale CeO2-based catalysts. *Journal of Catalysis*, **2010**, 276, 6-15	7.3	41
286	Thermodynamic analysis for a solid oxide fuel cell with direct internal reforming fueled by ethanol. *Chemical Engineering Science*, **2004**, 59, 6015-6020	4.4	41
285	Role of ultrasonic irradiation on transesterification of palm oil using calcium oxide as a solid base catalyst. *Energy Conversion and Management*, **2016**, 120, 62-70	10.6	41
284	Hydrogen production from catalytic supercritical water reforming of glycerol with cobalt-based catalysts. *International Journal of Hydrogen Energy*, **2013**, 38, 4368-4379	6.7	40
283	Hydrogen production from glycerol steam reforming for low- and high-temperature PEMFCs. *International Journal of Hydrogen Energy*, **2011**, 36, 267-275	6.7	40
282	Development of Ni□e bimetallic based catalysts for biomass tar cracking/reforming: Effects of catalyst support and co-fed reactants on tar conversion characteristics. *Fuel Processing Technology*, **2014**, 127, 26-32	7.2	38
281	H2 production from sorption enhanced steam reforming of biogas using multifunctional catalysts of Ni over Zr-, Ce- and La-modified CaO sorbents. *Chemical Engineering Journal*, **2017**, 313, 1415-1425	14.7	38
280	Performance of ethanol-fuelled solid oxide fuel cells: Proton and oxygen ion conductors. *Chemical Engineering Journal*, **2007**, 133, 187-194	14.7	37
279	Performance analysis of an integrated biomass gasification and PEMFC (proton exchange membrane fuel cell) system: Hydrogen and power generation. *Energy*, **2013**, 55, 98-106	7.9	36
278	Analysis of a proton-conducting SOFC with direct internal reforming. *Chemical Engineering Science*, **2010**, 65, 581-589	4.4	35
277	Analysis of planar solid oxide fuel cells based on proton-conducting electrolyte. *Solid State Ionics*, **2010**, 181, 1568-1576	3.3	35
276	Effect of membrane module arrangement of gas□quid membrane contacting process on CO2 absorption performance: A modeling study. *Journal of Membrane Science*, **2011**, 372, 75-86	9.6	34

275	Performance of an anode-supported solid oxide fuel cell with direct-internal reforming of ethanol. *International Journal of Hydrogen Energy*, **2009**, 34, 7780-7788	6.7	34
274	Investigation of isosynthesis via CO hydrogenation over ZrO2 and CeO2 catalysts: Effects of crystallite size, phase composition and acid–base sites. *Catalysis Communications*, **2007**, 8, 548-556	3.2	34
273	Process design of biodiesel production: Hybridization of ester-and transesterification in a single reactive distillation. *Energy Conversion and Management*, **2017**, 153, 493-503	10.6	33
272	Application of heterogeneous catalysts for transesterification of refined palm oil in ultrasound-assisted reactor. *Fuel Processing Technology*, **2013**, 111, 22-28	7.2	33
271	Integrated flow reactor that combines high-shear mixing and microwave irradiation for biodiesel production. *Biomass and Bioenergy*, **2015**, 77, 186-191	5.3	33
270	Simulation of pervaporation membrane reactors for liquid phase synthesis of ethyl tert-butyl ether from tert-butyl alcohol and ethanol. *Catalysis Today*, **2003**, 79-80, 249-257	5.3	33
269	The effect of direction of hydrogen permeation on the rate through a composite palladium membrane. *Journal of Membrane Science*, **2000**, 175, 19-24	9.6	33
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267	Modeling of SOFC with indirect internal reforming operation: Comparison of conventional packed-bed and catalytic coated-wall internal reformer. *International Journal of Hydrogen Energy*, **2009**, 34, 410-421	6.7	32
266	Effect of oxygen addition on catalytic performance of Ni/SiO2–MgO toward carbon dioxide reforming of methane under periodic operation. *International Journal of Hydrogen Energy*, **2009**, 34, 6211-6220	6.7	31
265	Conversion of poisonous methanethiol to hydrogen-rich gas by chemisorption/reforming over nano-scale CeO2: The use of CeO2 as catalyst coating material. *Applied Catalysis B: Environmental*, **2011**, 102, 267-275	21.8	31
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263	Theoretical performance analysis of ethanol-fuelled solid oxide fuel cells with different electrolytes. *Chemical Engineering Journal*, **2006**, 119, 11-18	14.7	31
262	Using glycerol for hydrogen production via sorption-enhanced chemical looping reforming: Thermodynamic analysis. *Energy Conversion and Management*, **2016**, 124, 325-332	10.6	31
261	Integration of the biorefinery concept for the development of sustainable processes for pulp and paper industry. *Computers and Chemical Engineering*, **2018**, 119, 70-84	4	31
260	Cleaner gasoline production by using glycerol as fuel extender. *Fuel Processing Technology*, **2010**, 91, 456-460	7.2	30
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258	Performance evaluation of combined solid oxide fuel cells with different electrolytes. *International Journal of Hydrogen Energy*, **2010**, 35, 4301-4310	6.7	29

257	Kinetics of liquid phase synthesis of ethyl tert-butyl ether from tert-butyl alcohol and ethanol catalyzed by □-zeolite supported on monolith. *International Journal of Chemical Kinetics*, **2002**, 34, 292-299	1.4	29
256	Epoxidation of methyl oleate in a TiO2 coated-wall capillary microreactor. *Chemical Engineering Journal*, **2017**, 314, 594-599	14.7	28
255	Process and cost modeling of lactic acid recovery from fermentation broths by membrane-based process. *Process Biochemistry*, **2018**, 68, 205-213	4.8	28
254	Synthetic CaO-based sorbent for high-temperature CO2 capture in sorption-enhanced hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 20663-20677	6.7	28
253	Comparative Study of Hydrogen Sulfide Adsorption by using Alkaline Impregnated Activated Carbons for Hot Fuel Gas Purification. *Energy Procedia*, **2011**, 9, 15-24	2.3	28
252	Preparation of Au/C catalysts using microwave-assisted and ultrasonic-assisted methods for acetylene hydrochlorination. *Applied Catalysis A: General*, **2014**, 475, 292-296	5.1	27
251	Catalytic reforming of glycerol in supercritical water with nickel-based catalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 14739-14750	6.7	27
250	Theoretical analysis of a glycerol reforming and high-temperature PEMFC integrated system: Hydrogen production and system efficiency. *Fuel*, **2013**, 105, 345-352	7.1	27
249	Reactive distillation for biodiesel production from soybean oil. *Korean Journal of Chemical Engineering*, **2011**, 28, 649-655	2.8	27
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246	Green Pathway in Utilizing CO2 via Cycloaddition Reaction with Epoxide□ Mini Review. *Processes*, **2020**, 8, 548	2.9	26
245	Ternary metal oxide catalysts for selective oxidation of benzene to phenol. *Journal of Industrial and Engineering Chemistry*, **2008**, 14, 596-601	6.3	26
244	Hydrogen production via chemical looping steam reforming of ethanol by Ni-based oxygen carriers supported on CeO2 and La2O3 promoted Al2O3. *International Journal of Hydrogen Energy*, **2020**, 45, 1477-1491	6.7	26
243	Graphene Oxide and Microwave Synergism for Efficient Esterification of Fatty Acids. *Energy & Fuels*, **2018**, 32, 3599-3607	4.1	25
242	Systematic methods and tools for design of sustainable chemical processes for CO2 utilization. *Computers and Chemical Engineering*, **2016**, 87, 125-144	4	25
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239	Analysis of a pressurized solid oxide fuel cell–gas turbine hybrid power system with cathode gas recirculation. *International Journal of Hydrogen Energy*, **2013**, 38, 4748-4759	6.7	25
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234	Hydrodynamics of countercurrent gas–liquid flow in inclined packed beds – A prospect for stretching flooding capacity with small packings. *Chemical Engineering Science*, **2015**, 138, 256-265	4.4	24
233	Thermodynamic analysis of combined unit of biomass gasifier and tar steam reformer for hydrogen production and tar removal. *International Journal of Hydrogen Energy*, **2013**, 38, 3930-3936	6.7	24
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228	Hydroxylation of benzene to phenol on Fe/TiO2 catalysts loaded with different types of second metal. *Catalysis Communications*, **2008**, 9, 1886-1890	3.2	23
227	Impact of temperature ramping rate during calcination on characteristics of nano-ZrO2 and its catalytic activity for isosynthesis. *Journal of Molecular Catalysis A*, **2008**, 280, 35-42		23
226	Kinetic dependencies and reaction pathways in hydrocarbon and oxyhydrocarbon conversions catalyzed by ceria-based materials. *Applied Catalysis B: Environmental*, **2008**, 82, 103-113	21.8	23
225	Theoretical study of the application of porous membrane reactor to oxidative dehydrogenation of n-butane. *Chemical Engineering Journal*, **2002**, 85, 69-79	14.7	23
224	Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor. *Chemical Engineering Journal*, **2005**, 106, 35-42	14.7	23
223	Neural network hybrid model of a direct internal reforming solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2012**, 37, 2498-2508	6.7	22
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220	Selective oxidation of methane in an SOFC-type reactor: effect of applied potential. *Chemical Engineering Journal*, **2003**, 93, 3-9	14.7	21
219	Analysis of thermally coupling steam and tri-reforming processes for the production of hydrogen from bio-oil. *International Journal of Hydrogen Energy*, **2016**, 41, 18370-18379	6.7	21
218	Hydrogen production from supercritical water reforming of glycerol in an empty Inconel 625 reactor. *International Journal of Hydrogen Energy*, **2014**, 39, 159-170	6.7	20
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212	Effect of KI and KOH Impregnations over Activated Carbon on H2S Adsorption Performance at Low and High Temperatures. *Separation Science and Technology*, **2014**, 49, 354-366	2.5	19
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208	Performance evaluation of biogas upgrading systems from swine farm to biomethane production for renewable hydrogen source. *International Journal of Hydrogen Energy*, **2019**, 44, 23135-23148	6.7	18
207	Enhanced performance of solid oxide electrolysis cells by integration with a partial oxidation reactor: Energy and exergy analyses. *Energy Conversion and Management*, **2016**, 129, 189-199	10.6	18
206	Optimization of hydrogen production from three reforming approaches of glycerol via using supercritical water with in situ CO2 separation. *International Journal of Hydrogen Energy*, **2019**, 44, 2128-2140	6.7	18
205	Reactivity of Ce-ZrO2 (doped with La-, Gd-, Nb-, and Sm-) toward partial oxidation of liquefied petroleum gas: Its application for sequential partial oxidation/steam reforming. *International Journal of Hydrogen Energy*, **2010**, 35, 6747-6756	6.7	18
204	Methodology for design and analysis of reactive distillation involving multielement systems. *Chemical Engineering Research and Design*, **2011**, 89, 1295-1307	5.5	17

203	Reactivity of Ni/SiO2–MgO toward carbon dioxide reforming of methane under steady state and periodic operations. *Journal of Industrial and Engineering Chemistry*, **2009**, 15, 488-497	6.3	17
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201	Production of ethyltert-butyl ether fromtert-butyl alcohol and ethanol catalyzed by Hzeolite in reactive distillation. *Korean Journal of Chemical Engineering*, **2004**, 21, 1139-1146	2.8	17
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195	Bi-metallic CuO-NiO based multifunctional material for hydrogen production from sorption-enhanced chemical looping autothermal reforming of ethanol. *Chemical Engineering Journal*, **2020**, 398, 125543	14.7	16
194	Conversion of biomass tar containing sulphur to syngas by GdCeO2 coated NiFe bimetallic-based catalysts. *Applied Catalysis A: General*, **2014**, 478, 9-14	5.1	16
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190	Promotional role of MgO on sorption-enhanced steam reforming of ethanol over Ni/CaO catalysts. *AICHE Journal*, **2020**, 66, e16877	3.6	16
189	Catalytic performance of Ni catalysts supported on CeO2 with different morphologies for low-temperature CO2 methanation. *Catalysis Today*, **2021**, 375, 234-244	5.3	16
188	Comparison of different kraft lignin-based vanillin production processes. *Computers and Chemical Engineering*, **2018**, 117, 159-170	4	16
187	Conceptual design and life cycle assessment of decentralized power generation by HT-PEMFC system with sorption enhanced water gas shift loop. *Energy Conversion and Management*, **2018**, 171, 20-30	10.6	16
186	Effects of support and co-fed elements on steam reforming of palm fatty acid distillate (PFAD) over Rh-based catalysts. *Applied Catalysis A: General*, **2010**, 383, 50-57	5.1	15

185	Carbon dioxide reforming of methane under periodic operation. *Korean Journal of Chemical Engineering*, **2007**, 24, 44-50	2.8	15
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183	Incorporation of hydrogen by-product from NaOCH3 production for methanol synthesis via CO2 hydrogenation: Process analysis and economic evaluation. *Journal of Cleaner Production*, **2019**, 212, 893-909	10.3	15
182	Catalytic Activity of Bimetallic Cu-Ag/MgO-SiO2 Toward the Conversion of Ethanol to 1,3-Butadiene. *International Journal of Chemical Reactor Engineering*, **2016**, 14, 945-954	1.2	14
181	PERFORMANCE OF SODIUM-IMPREGNATED ACTIVATED CARBONS TOWARD LOW AND HIGH TEMPERATURE H2S ADSORPTION. *Chemical Engineering Communications*, **2014**, 201, 257-271	2.2	14
180	The adsorption aspect of Cu2 + and Zn2 + on MCM-41 and SDS-modified MCM-41. *Inorganic Chemistry Communication*, **2014**, 46, 301-304	3.1	14
179	Enhanced effectiveness of Rhizopus oryzae by immobilization in a static bed fermentor for l-lactic acid production. *Process Biochemistry*, **2017**, 52, 44-52	4.8	14
178	Reduction of carbon dioxide via catalytic hydrogenation over copper-based catalysts modified by oyster shell-derived calcium oxide. *Journal of Environmental Chemical Engineering*, **2017**, 5, 3115-3121	6.8	13
177	Process development of sustainable biorefinery system integrated into the existing pulping process. *Journal of Cleaner Production*, **2020**, 255, 120278	10.3	13
176	Effect of pretreatment atmosphere of WO /SiO catalysts on metathesis of ethylene and 2-butene to propylene.. *RSC Advances*, **2018**, 8, 11693-11704	3.7	13
175	Production of n-butyl acetate from dilute acetic acid and n-butanol using different reactive distillation systems: Economic analysis. *Journal of the Taiwan Institute of Chemical Engineers*, **2009**, 40, 21-28	5.3	13
174	Gasoline upgrading by self-etherification with ethanol on modified beta-zeolite. *Fuel Processing Technology*, **2011**, 92, 1999-2004	7.2	13
173	Oxidative Coupling of Methane in the LSM/YSZ/LaAlO SOFC Reactor. *Journal of Chemical Engineering of Japan*, **2004**, 37, 1461-1470	0.8	13
172	Catalytic pyrolysis of petroleum-based and biodegradable plastic waste to obtain high-value chemicals. *Waste Management*, **2021**, 127, 101-111	8.6	13
171	Alternative Hydrocarbon Biofuel Production via Hydrotreating under a Synthesis Gas Atmosphere. *Energy & Fuels*, **2017**, 31, 12256-12262	4.1	12
170	Comparison between parallel and checked arrangements of micro reformer for H2 production from methane. *Chemical Engineering Journal*, **2015**, 268, 135-143	14.7	12
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