Klaus Hellgardt

List of Publications by Citations

155 papers	3,806 citations	36 h-index	55 g-index
159 ext. papers	4,460 ext. citations	5.9 avg, IF	6.05 L-index

#	Paper	IF	Citations
155	An assessment of solar-powered organic Rankine cycle systems for combined heating and power in UK domestic applications. *Applied Energy*, **2015**, 138, 605-620	10.7	188
154	A UK-based assessment of hybrid PV and solar-thermal systems for domestic heating and power: System performance. *Applied Energy*, **2014**, 122, 288-309	10.7	182
153	Levelized cost of CO2 mitigation from hydrogen production routes. *Energy and Environmental Science*, **2019**, 12, 19-40	35.4	139
152	Working fluid selection and electrical performance optimisation of a domestic solar-ORC combined heat and power system for year-round operation in the UK. *Applied Energy*, **2017**, 186, 291-303	10.7	120
151	Aerobic oxidations in flow: opportunities for the fine chemicals and pharmaceuticals industries. *Reaction Chemistry and Engineering*, **2016**, 1, 595-612	4.9	109
150	Steam reforming of a clean model biogas over Ni/Al2O3 in fluidized- and fixed-bed reactors. *Catalysis Today*, **2002**, 77, 181-189	5.3	104
149	A review on hydrothermal pre-treatment technologies and environmental profiles of algal biomass processing. *Bioresource Technology*, **2016**, 199, 288-299	11	103
148	Optimising H2 production from model biogas via combined steam reforming and CO shift reactions. *Fuel*, **2005**, 84, 869-874	7.1	95
147	High performance direct ammonia solid oxide fuel cell. *Journal of Power Sources*, **2006**, 162, 198-206	8.9	79
146	Electricity generation from digitally printed cyanobacteria. *Nature Communications*, **2017**, 8, 1327	17.4	74
145	Catalysis in flow: the practical and selective aerobic oxidation of alcohols to aldehydes and ketones. *Green Chemistry*, **2010**, 12, 2157	10	70
144	Hydrous ferric oxide as an adsorbent in water treatment. *Chemical Engineering Research and Design*, **2008**, 86, 21-30	5.5	69
143	Modelling and development of photoelectrochemical reactor for H2 production. *International Journal of Hydrogen Energy*, **2012**, 37, 2911-2923	6.7	64
142	Preparation and characterisation of polyaniline based membranes for gas separation. *Journal of Membrane Science*, **2001**, 184, 69-78	9.6	62
141	Wastewater treatment: wet air oxidation as a precursor to biological treatment. *Catalysis Today*, **1999**, 53, 93-106	5.3	62
140	Enhanced permeability of polyaniline based nano-membranes for gas separation. *Journal of Membrane Science*, **2006**, 282, 60-70	9.6	57
139	Catalysis in flow: Au-catalysed alkylation of amines by alcohols. *Green Chemistry*, **2012**, 14, 226-232	10	52

138	Design of a novel flat-plate photobioreactor system for green algal hydrogen production. *International Journal of Hydrogen Energy*, **2011**, 36, 6578-6591	6.7	52
137	Hydrous ferric oxide as an adsorbent in water treatment: Part 2. Adsorption studies. *Chemical Engineering Research and Design*, **2008**, 86, 11-20	5.5	52
136	Palladium catalysed heck reactions and allylic substitution reactions using glass bead technology. *Tetrahedron Letters*, **1997**, 38, 4319-4322	2	51
135	Characterisation of carbon deposits on Ni/SiO2 in the reforming of CH4 CO2 using fixed- and fluidised-bed reactors. *Catalysis Communications*, **2003**, 4, 203-207	3.2	51
134	Selective Oxidation of Methane to Methanol Over Cu- and Fe-Exchanged Zeolites: The Effect of Si/Al Molar Ratio. *Catalysis Letters*, **2016**, 146, 483-492	2.8	50
133	Contemporary trends in composite Ni-based catalysts for CO2 reforming of methane. *Chemical Engineering Science*, **2021**, 229, 116072	4.4	49
132	Intermediate temperature solid oxide fuel cells operated with methanol fuels. *Chemical Engineering Science*, **2000**, 55, 3077-3083	4.4	48
131	Towards ultrathin polyaniline films for gas separation. *Journal of Membrane Science*, **2005**, 253, 199-208	9.6	46
130	Uncovering the true cost of hydrogen production routes using life cycle monetisation. *Applied Energy*, **2021**, 281, 115958	10.7	46
129	Effect of pH of Precipitation on the Preparation of High Surface Area Aluminas from Nitrate Solutions. *Industrial & Engineering Chemistry Research*, **1998**, 37, 405-411	3.9	45
128	Catalysis in flow: Operando study of Pd catalyst speciation and leaching. *Catalysis Today*, **2014**, 229, 95-103	5.3	43
127	Application of Water in Hydrothermal Conditions for Upgrading Heavy Oils: A Review. *Energy & Fuels*, **2017**, 31, 4571-4587	4.1	41
126	Hydrothermal upgrading of algae paste in a continuous flow reactor. *Bioresource Technology*, **2015**, 191, 460-8	11	41
125	Modelling of light and temperature influences on cyanobacterial growth and biohydrogen production. *Algal Research*, **2015**, 9, 263-274	5	40
124	Deep learning-based surrogate modeling and optimization for microalgal biofuel production and photobioreactor design. *AICHE Journal*, **2019**, 65, 915-923	3.6	40
123	Solar-driven hydrogen production in green algae. *Advances in Applied Microbiology*, **2011**, 75, 71-110	4.9	39
122	Parameters affecting the growth and hydrogen production of the green alga Chlamydomonas reinhardtii. *International Journal of Hydrogen Energy*, **2011**, 36, 7872-7876	6.7	38
121	From Organometallic Zinc and Copper Complexes to Highly Active Colloidal Catalysts for the Conversion of CO2 to Methanol. *ACS Catalysis*, **2015**, 5, 2895-2902	13.1	37

120	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO. *Organometallics*, **2014**, 33, 1112-1119	3.8	36
119	Closing the carbon cycle to maximise climate change mitigation: power-to-methanol vs. power-to-direct air capture. *Sustainable Energy and Fuels*, **2018**, 2, 1153-1169	5.8	35
118	Modelling light transmission, cyanobacterial growth kinetics and fluid dynamics in a laboratory scale multiphase photo-bioreactor for biological hydrogen production. *Algal Research*, **2015**, 8, 99-107	5	35
117	Morphological Modification of TiO Thin Films as Highly Efficient Photoanodes for Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2015**, 7, 9088-97	9.5	34
116	An integrated process for biomass pyrolysis oil upgrading: A synergistic approach. *Biomass and Bioenergy*, **2015**, 76, 108-117	5.3	34
115	Effects of light and temperature on the photoautotrophic growth and photoinhibition of nitrogen-fixing cyanobacterium Cyanothece sp. ATCC 51142. *Algal Research*, **2014**, 5, 103-111	5	33
114	Towards sustainable hydrogenation of 5-(hydroxymethyl)furfural: a two-stage continuous process in aqueous media over RANEY catalysts. *RSC Advances*, **2017**, 7, 31401-31407	3.7	33
113	Catalytic Hydrotreatment of algal biocrude from fast Hydrothermal Liquefaction. *Renewable Energy*, **2017**, 101, 1094-1101	8.1	33
112	Catalysis in Flow: Nickel-Catalyzed Synthesis of Primary Amines from Alcohols and NH3. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5479-5484	8.3	32
111	Photoelectrochemical performance of graphene-modified TiO 2 photoanodes in the presence of glycerol as a hole scavenger. *International Journal of Hydrogen Energy*, **2014**, 39, 18204-18215	6.7	32
110	Hydrothermal upgrading of algae paste: Inorganics and recycling potential in the aqueous phase. *Science of the Total Environment*, **2016**, 568, 489-497	10.2	31
109	Preparation of novel mesoporous carbons for the adsorption of an inflammatory cytokine (IL-1 beta). *Biomaterials*, **2004**, 25, 2933-40	15.6	31
108	An Assessment of Solar Thermal Collector Designs for Small-Scale Combined Heating and Power Applications in the United Kingdom. *Heat Transfer Engineering*, **2015**, 36, 1332-1347	1.7	29
107	Toward a Green Generation of Oxidant on Demand: Practical Electrosynthesis of Ammonium Persulfate. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2027-2036	8.3	27
106	Process and reactor design for biophotolytic hydrogen production. *Physical Chemistry Chemical Physics*, **2013**, 15, 10783-94	3.6	27
105	Dynamic modelling of high biomass density cultivation and biohydrogen production in different scales of flat plate photobioreactors. *Biotechnology and Bioengineering*, **2015**, 112, 2429-38	4.9	26
104	A novel nutrient control method to deprive green algae of sulphur and initiate spontaneous hydrogen production. *International Journal of Hydrogen Energy*, **2012**, 37, 8988-9001	6.7	24
103	Towards autothermal hydrogen production by sorption-enhanced water gas shift and methanol reforming: A thermodynamic analysis. *International Journal of Hydrogen Energy*, **2018**, 43, 4211-4222	6.7	23

102	Spatial, temporal and quantitative assessment of catalyst leaching in continuous flow. *Catalysis Today*, **2018**, 308, 64-70	5.3	23
101	Optimal Operation Strategy for Biohydrogen Production. *Industrial & Engineering Chemistry Research*, **2015**, 54, 6334-6343	3.9	22
100	Thermodynamic analysis of hydrogen production via hydrothermal gasification of hexadecane. *International Journal of Hydrogen Energy*, **2012**, 37, 5656-5664	6.7	22
99	Operando XAFS of supported Pd nanoparticles in flowing ethanol/water mixtures: implications for catalysis. *Green Chemistry*, **2016**, 18, 406-411	10	21
98	Membrane-less photoelectrochemical cells: product separation by hydrodynamic control. *Sustainable Energy and Fuels*, **2017**, 1, 1184-1198	5.8	21
97	Analysis of the cyanobacterial hydrogen photoproduction process via model identification and process simulation. *Chemical Engineering Science*, **2015**, 128, 130-146	4.4	21
96	Optimisation of Palladium-Based Supported Liquid-Phase Catalysts in the Heck Reaction. *Organic Process Research and Development*, **1998**, 2, 325-331	3.9	21
95	Algal Biofuels: A Credible Prospective? **2012**, 2012, 1-14		20
94	Syngas production from greenhouse gases using Ni□W bimetallic catalyst via dry methane reforming: Effect of W addition. *International Journal of Hydrogen Energy*, **2021**, 46, 27044-27061	6.7	20
93	A colorimetric method for rapid and selective quantification of peroxodisulfate, peroxomonosulfate and hydrogen peroxide. *Reaction Chemistry and Engineering*, **2017**, 2, 462-466	4.9	19
92	Sub and supercritical water reforming of n-hexadecane in a tubular flow reactor. *Journal of Supercritical Fluids*, **2016**, 107, 723-732	4.2	19
91	A New Solubility Model to Describe Biodiesel Formation Kinetics. *Chemical Engineering Research and Design*, **2007**, 85, 383-389	5.5	19
90	Effect of carbon-based materials and CeO2 on Ni catalysts for Kraft lignin liquefaction in supercritical water. *Green Chemistry*, **2018**, 20, 4308-4318	10	18
89	Environmental profile of algal Hydrothermal Liquefaction □A country specific case study. *Algal Research*, **2016**, 16, 127-140	5	16
88	Partial oxidation of n-hexadecane through decomposition of hydrogen peroxide in supercritical water. *Chemical Engineering Research and Design*, **2015**, 93, 565-575	5.5	15
87	Behaviour of Titanium-based Fe2O3 Photo-Anodes in Photo-Electrochemical Reactors for Water Splitting. *Electrochimica Acta*, **2014**, 125, 266-274	6.7	15
86	Hydrothermal upgrading of algae paste: Application of 31P-NMR. *Environmental Progress and Sustainable Energy*, **2013**, 32, 1002-1012	2.5	15
85	2-Iodoxybenzoic Acid Synthesis by Oxidation of 2-Iodobenzoic Acid at a Boron-Doped Diamond Anode. *ChemElectroChem*, **2018**, 5, 1002-1005	4.3	14

84	Optical Losses at Gas Evolving Photoelectrodes: Implications for Photoelectrochemical Water Splitting. *Journal of Physical Chemistry C*, **2019**, 123, 17-28	3.8	14
83	Binuclear □diketiminate complexes of copper(i). *Dalton Transactions*, **2017**, 46, 2081-2090	4.3	13
82	Assessing the scalability of low conductivity substrates for photo-electrodes via modelling of resistive losses. *Physical Chemistry Chemical Physics*, **2018**, 20, 12422-12429	3.6	13
81	MFI Acid Catalysts with Different Crystal Sizes and Porosity for the Conversion of Furanic Compounds in Alcohol Media. *ChemCatChem*, **2017**, 9, 2747-2759	5.2	13
80	Computer modelling and numerical analysis of hydrodynamics and heat transfer in non-porous catalytic reactor for the decomposition of ammonia. *Chemical Engineering Science*, **2005**, 60, 5862-5877	4.4	13
79	Recovery of excreted n-butanol from genetically engineered cyanobacteria cultures: Process modelling to quantify energy and economic costs of different separation technologies. *Algal Research*, **2019**, 37, 92-102	5	13
78	CFD and kinetic-based modeling to optimize the sparger design of a large-scale photobioreactor for scaling up of biofuel production. *Biotechnology and Bioengineering*, **2019**, 116, 2200-2211	4.9	12
77	Photocatalytic Production of Bisabolene from Green Microalgae Mutant: Process Analysis and Kinetic Modeling. *Industrial & Engineering Chemistry Research*, **2018**, 57, 10336-10344	3.9	12
76	One-pot hydrogen production and cascade reaction of furfural to bioproducts over bimetallic Pd-Ni TUD-1 type mesoporous catalysts. *Applied Catalysis B: Environmental*, **2018**, 237, 521-537	21.8	12
75	Structural Investigation of the High-Temperature Oxidation of Bismuth Sulfide Using TPO-MS and in Situ X-ray Diffraction Techniques. *Industrial & Engineering Chemistry Research*, **2004**, 43, 3127-3132	3.9	12
74	Catalysis in flow: O2 effect on the catalytic activity of Ru(OH)x/□Al2O3 during the aerobic oxidation of an alcohol. *Reaction Chemistry and Engineering*, **2017**, 2, 60-67	4.9	11
73	Demonstration of a two-stage aerobic/anaerobic chemostat for the enhanced production of hydrogen and biomass from unicellular nitrogen-fixing cyanobacterium. *Algal Research*, **2015**, 10, 189-201	5	11
72	Effect of the Light Regime and Phototrophic Conditions on Growth of the H2-producing Green Alga Chlamydomonas Reinhardtii. *Energy Procedia*, **2012**, 29, 710-719	2.3	11
71	Halide diffusion in polyaniline membranes. *Journal of Membrane Science*, **2006**, 270, 115-122	9.6	11
70	Performance of Ni/Al2O3-MgO catalyst for Dry Reforming of Methane: Effect of preparation routes. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1092, 012069	0.4	11
69	Response surface optimization of syngas production from greenhouse gases via DRM over high performance Ni□W catalyst. *International Journal of Hydrogen Energy*, **2021**,	6.7	11
68	Methane pyrolysis in monovalent alkali halide salts: Kinetics and pyrolytic carbon properties. *International Journal of Hydrogen Energy*, **2021**, 46, 6225-6238	6.7	11
67	Kinetic studies for DRM over high-performance Ni□W/Al2O3□MgO catalyst. *International Journal of Hydrogen Energy*, **2021**,	6.7	11

66	High-productive, nanostructured polyaniline membranes for gas separation. *Desalination*, **2006**, 199, 474-476	10.3	10
65	Screening Metal–Organic Frameworks for Dynamic CO/N2 Separation Using Complementary Adsorption Measurement Techniques. *Industrial & Engineering Chemistry Research*, **2019**, 58, 18336-18344	3.9	9
64	Re-evaluating selectivity as a determining factor in peroxidative methane oxidation by multimetallic copper complexes. *Catalysis Science and Technology*, **2015**, 5, 4108-4115	5.5	9
63	Hydrothermal deoxygenation of pyrolysis oil from Norwegian spruce: Picea abies. *Biomass and Bioenergy*, **2013**, 56, 446-455	5.3	9
62	Effect of process conditions on the hydrothermal partial oxidation of phenanthrene as a heavy oil model structure. *Fuel*, **2017**, 209, 434-441	7.1	9
61	Importance of surface roughness of TiO2 photoanodes in promoting photoelectrochemical activities with and without sacrificial agent. *Thin Solid Films*, **2020**, 705, 138009	2.2	8
60	Evaluation and Modeling of a Photo-Electrochemical Reactor for Hydrogen Production Operating under High Photon Flux. *ECS Transactions*, **2011**, 35, 11-19	1	8
59	Propene partial oxidation over Au–Ag Alloy and Ag catalysts using electrochemical oxygen. *Solid State Ionics*, **2008**, 179, 1401-1404	3.3	8
58	Co-Mn catalysts for H2 production via methane pyrolysis in molten salts. *Chemical Engineering Journal*, **2021**, 414, 128730	14.7	8
57	Fabrication and electrochemical performance of anode-supported solid oxide fuel cells based on proton-conducting lanthanum tungstate thin electrolyte. *Solid State Ionics*, **2019**, 337, 132-139	3.3	7
56	Catalysis in Flow: Why Leaching Matters. *Topics in Organometallic Chemistry*, **2015**, 249-262	0.6	7
55	Restructuring of supported Pd by green solvents: an operando quick EXAFS (QEXAFS) study and implications for the derivation of structure–function relationships in Pd catalysis. *Catalysis Science and Technology*, **2016**, 6, 8525-8531	5.5	7
54	A versatile open-source analysis of the limiting efficiency of photo electrochemical water-splitting. *Scientific Reports*, **2018**, 8, 12807	4.9	7
53	CFD analysis of hydrothermal conversion of heavy oil in continuous flow reactor. *Chemical Engineering Research and Design*, **2017**, 117, 250-264	5.5	7
52	An attenuated total reflection Fourier transform infrared (ATR FT-IR) spectroscopic study of gas adsorption on colloidal stearate-capped ZnO catalyst substrate. *Applied Spectroscopy*, **2014**, 68, 88-94	3.1	7
51	Remote sensing of the flux responses of a gas–solid catalytic micro-reactor. *Chemical Engineering Science*, **2000**, 55, 1621-1632	4.4	7
50	Controlled multiphase oxidations for continuous manufacturing of fine chemicals. *Chemical Engineering Journal*, **2017**, 329, 220-230	14.7	6
49	Using temporal analysis of products and flux response technology to determine diffusion coefficients in catalytic monoliths. *Chemical Engineering Science*, **2013**, 87, 224-233	4.4	6

48	In situ measurement of gas adsorption processes using Flux Response Technology. *Adsorption*, **2011**, 17, 783-794	2.6	6
47	Engineering Biocatalytic Solar Fuel Production: The PHOTOFUEL Consortium. *Trends in Biotechnology*, **2021**, 39, 323-327	15.1	6
46	Noninvasive Differential Pressure Technique for Bubble Characterization in High-Temperature Opaque Systems. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6236-6246	3.9	5
45	Assessing the performance of UK universities in the field of chemical engineering using data envelopment analysis. *Education for Chemical Engineers*, **2019**, 29, 29-41	2.4	5
44	Modeling and Evaluation of a Photoelectrochemical Reactor for H2 Production. *ECS Transactions*, **2010**, 28, 103-117	1	5
43	The effect of electrochemical oxygen on the selectivity of the partial oxidation of propene over silver catalysts. *Solid State Ionics*, **2005**, 176, 831-835	3.3	5
42	Hydrothermal liquefaction and in situ supercritical transesterification of algae paste. *RSC Advances*, **2016**, 6, 86560-86568	3.7	5
41	Effects of Cl on the reduction of supported PdO in ethanol/water solvent mixtures **2017**, 3, 54-62		4
40	Are the kids alright? Exploring students experiences of support mechanisms to enhance wellbeing on an engineering programme in the UK. *European Journal of Engineering Education*, **2020**, 1-16	1.5	4
39	Crystal Structure of Geranylgeranyl Pyrophosphate Synthase (CrtE) Involved in Cyanobacterial Terpenoid Biosynthesis. *Frontiers in Plant Science*, **2020**, 11, 589	6.2	4
38	Effect of retained chlorine in ENCAT 30 catalysts on the development of encapsulated Pd: insights from in situ Pd K, L3 and Cl K-edge XAS **2017**, 3, 149-156		4
37	A new HYSYS model for underground gasification of hydrocarbons under hydrothermal conditions. *International Journal of Hydrogen Energy*, **2014**, 39, 12648-12656	6.7	4
36	Viscosity of Binary Mixtures of Carbon Monoxide and Helium. *Journal of Chemical & Engineering Data*, **2008**, 53, 303-306	2.8	4
35	Citation Ootprint Analysis Part I: UK and US Chemical Engineering Academics. *Scientometrics*, **2000**, 49, 289-305	3	4
34	Transformations of ferrihydrite during calcination and sulphidation. *Catalysis Today*, **1999**, 49, 79-86	5.3	4
33	Improved Bioproduction of 1-Octanol Using Engineered sp. PCC 6803. *ACS Synthetic Biology*, **2021**, 10, 1417-1428	5.7	4
32	Molten salt bubble columns for low-carbon hydrogen from CH4 pyrolysis: Mass transfer and carbon formation mechanisms. *Chemical Engineering Journal*, **2021**, 417, 127407	14.7	4
31	Electrical conductivities and microstructures of LSM, LSM-YSZ and LSM-YSZ/LSM cathodes fabricated on YSZ electrolyte hollow fibres by dip-coating. *Materials Today Chemistry*, **2020**, 16, 100252	6.2	3

30	HDS activity of phosphorus promoted co-precipitated iron/alumina catalysts. *Applied Catalysis A: General*, **2002**, 226, 79-86	5.1	3
29	Modelling and simulation of the flux responses of a gas□solid catalytic micro-reactor. *Chemical Engineering Science*, **2002**, 57, 953-966	4.4	3
28	In situ determination of the viscosity of gas mixtures containing trace quantities of oxygen. *AICHE Journal*, **2000**, 46, 1449-1453	3.6	3
27	Design of sample holders for surface analysis of powders. *Review of Scientific Instruments*, **1996**, 67, 4025-4026	1.7	3
26	Hydrogen production via natural gas reforming: A comparative study between DRM, SRM and BRM techniques **2021**,		3
25	Continuous Flow Technologies in the Development of □Green□ Organic Reactions and Processes. *Series on Chemistry, Energy and the Environment*, **2018**, 257-284	0.2	2
24	Pneumatic hydrodynamics influence transplastomic protein yields and biological responses during shoot regeneration of callus: Implications for bioprocess routes to plant-made biopharmaceuticals. *Biochemical Engineering Journal*, **2017**, 117, 73-81	4.2	2
23	Thermodynamic Analysis of Autothermal Reforming of Oxygenated Hydrocarbons at Thermoneutral Condition for Hydrogen Production. *Applied Mechanics and Materials*, **2014**, 625, 730-733	0.3	2
22	Flux Response Analysis. *Chemical Engineering Research and Design*, **2004**, 82, 1397-1403	5.5	2
21	Engaging students to shape their own learning: Driving curriculum re-design using a theory of change approach. *Education for Chemical Engineers*, **2022**, 38, 14-21	2.4	2
20	Base-free, tunable, Au-catalyzed oxidative esterification of alcohols in continuous flow. *Reaction Chemistry and Engineering*, **2018**, 3, 942-948	4.9	2
19	Photoelectrochemical Reaction Engineering for Solar Fuels Production **2018**, 1-41		2
18	Lignin to Monoaromatics with a Carbon-Nanofiber-Supported Ni□CeO2□ Catalyst Synthesized in a One-Pot Hydrothermal Process. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 12800-12812	8.3	2
17	Chemo- and diastereoselectivities in the electrochemical reduction of maleimides. *ChemSusChem*, **2015**, 8, 665-71	8.3	1
16	Flux response technology applied in zero length column diffusivity measurements. *Adsorption*, **2012**, 18, 403-415	2.6	1
15	Measurement of gas mixing volumes by Flux Response Technology. *Fluid Phase Equilibria*, **2007**, 256, 93-98	2.5	1
14	Measurement of the gradient of viscosity with composition of mixtures of non-ideal gases. *Chemical Engineering Science*, **2006**, 61, 6604-6615	4.4	1
13	A solid oxide fuel cell with molten tin anode for electricity generation and methane reforming. *Journal of Power Sources*, **2020**, 474, 228577	8.9	1

12	Oxidative cracking of three to five-member ring polycyclic aromatic hydrocarbons in subcritical and supercritical water. *Journal of Supercritical Fluids*, **2021**, 167, 105050	4.2	1
11	Phase Behaviour of Methane Hydrates in Confined Media. *Crystals*, **2021**, 11, 201	2.3	1
10	Rapid formation of 2-lithio-1-(triphenylmethyl)imidazole and substitution reactions in flow. *Reaction Chemistry and Engineering*,	4.9	0
9	Effects of PEG templating of spray-pyrolyzed TiO2 films on their nanoscale roughness and eventual photoelectrochemical properties. *Journal of Applied Electrochemistry*,1	2.6	0
8	Flux Response Technology (FRT) Applied in Zero Length Column Diffusivity and Adsorption Measurements. *Transport in Porous Media*, **2015**, 107, 731-744	3.1	
7	Ethanol Steam Reforming over Calcium Doped Ni/Al2O3 Catalyst. *Applied Mechanics and Materials*, **2014**, 625, 271-274	0.3	
6	Integrated knowledge based system for process synthesis. *Computer Aided Chemical Engineering*, **2007**, 437-442	0.6	
5	Model of a non-isothermal tubular ammonia reformer for fuel cell applications. *World Review of Science, Technology and Sustainable Development*, **2007**, 4, 161	1	
4	Use of numerical taxonomy and journal impact factors in the evaluation of chemical engineering academics publications. *Journal of Information Science*, **2001**, 27, 371-375	2	
3	Flux response analysis A new in situ technique for catalyst characterization. *Studies in Surface Science and Catalysis*, **2000**, 130, 3107-3112	1.8	
2	Activation of catalysts in commercial scale fixed-bed reactors: Dynamic modelling and guidelines for avoiding undesired temperature excursions. *Chemical Engineering Journal*, **2020**, 382, 122962	14.7	
1	A novel molten tin reformer: Kinetics of oxygen dissolution in molten tin. *Chemical Engineering Science*, **2021**, 231, 116273	4.4	