

Klaus Hellgardt

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.

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	Engaging students to shape their own learning: Driving curriculum re-design using a theory of change approach. <i>Education for Chemical Engineers</i> , 2022 , 38, 14-21	2.4	2
154	Performance of Ni/Al ₂ O ₃ -MgO catalyst for Dry Reforming of Methane: Effect of preparation routes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1092, 012069	0.4	11
153	Engineering Biocatalytic Solar Fuel Production: The PHOTOFUEL Consortium. <i>Trends in Biotechnology</i> , 2021 , 39, 323-327	15.1	6
152	Improved Bioproduction of 1-Octanol Using Engineered sp. PCC 6803. <i>ACS Synthetic Biology</i> , 2021 , 10, 1417-1428	5.7	4
151	Co-Mn catalysts for H ₂ production via methane pyrolysis in molten salts. <i>Chemical Engineering Journal</i> , 2021 , 414, 128730	14.7	8
150	Response surface optimization of syngas production from greenhouse gases via DRM over high performance Ni _W catalyst. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	11
149	Contemporary trends in composite Ni-based catalysts for CO ₂ reforming of methane. <i>Chemical Engineering Science</i> , 2021 , 229, 116072	4.4	49
148	Oxidative cracking of three to five-member ring polycyclic aromatic hydrocarbons in subcritical and supercritical water. <i>Journal of Supercritical Fluids</i> , 2021 , 167, 105050	4.2	1
147	A novel molten tin reformer: Kinetics of oxygen dissolution in molten tin. <i>Chemical Engineering Science</i> , 2021 , 231, 116273	4.4	
146	Uncovering the true cost of hydrogen production routes using life cycle monetisation. <i>Applied Energy</i> , 2021 , 281, 115958	10.7	46
145	Molten salt bubble columns for low-carbon hydrogen from CH ₄ pyrolysis: Mass transfer and carbon formation mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 417, 127407	14.7	4
144	Phase Behaviour of Methane Hydrates in Confined Media. <i>Crystals</i> , 2021 , 11, 201	2.3	1
143	Methane pyrolysis in monovalent alkali halide salts: Kinetics and pyrolytic carbon properties. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6225-6238	6.7	11
142	Kinetic studies for DRM over high-performance Ni _W /Al ₂ O ₃ /MgO catalyst. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	11
141	Syngas production from greenhouse gases using Ni _W bimetallic catalyst via dry methane reforming: Effect of W addition. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 27044-27061	6.7	20
140	Lignin to Monoaromatics with a Carbon-Nanofiber-Supported NiTeO ₂ Catalyst Synthesized in a One-Pot Hydrothermal Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12800-12812	8.3	2
139	Hydrogen production via natural gas reforming: A comparative study between DRM, SRM and BRM techniques 2021 ,		3

138	Are the kids alright? Exploring students' experiences of support mechanisms to enhance wellbeing on an engineering programme in the UK. <i>European Journal of Engineering Education</i> , 2020 , 1-16	1.5	4
137	Importance of surface roughness of TiO ₂ photoanodes in promoting photoelectrochemical activities with and without sacrificial agent. <i>Thin Solid Films</i> , 2020 , 705, 138009	2.2	8
136	Crystal Structure of Geranylgeranyl Pyrophosphate Synthase (CrtE) Involved in Cyanobacterial Terpenoid Biosynthesis. <i>Frontiers in Plant Science</i> , 2020 , 11, 589	6.2	4
135	Noninvasive Differential Pressure Technique for Bubble Characterization in High-Temperature Opaque Systems. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6236-6246	3.9	5
134	Electrical conductivities and microstructures of LSM, LSM-YSZ and LSM-YSZ/LSM cathodes fabricated on YSZ electrolyte hollow fibres by dip-coating. <i>Materials Today Chemistry</i> , 2020 , 16, 100252	6.2	3
133	Activation of catalysts in commercial scale fixed-bed reactors: Dynamic modelling and guidelines for avoiding undesired temperature excursions. <i>Chemical Engineering Journal</i> , 2020 , 382, 122962	14.7	
132	A solid oxide fuel cell with molten tin anode for electricity generation and methane reforming. <i>Journal of Power Sources</i> , 2020 , 474, 228577	8.9	1
131	Screening Metal-Organic Frameworks for Dynamic CO ₂ /N ₂ Separation Using Complementary Adsorption Measurement Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18336-18344	3.9	9
130	Levelized cost of CO ₂ mitigation from hydrogen production routes. <i>Energy and Environmental Science</i> , 2019 , 12, 19-40	35.4	139
129	CFD and kinetic-based modeling to optimize the sparger design of a large-scale photobioreactor for scaling up of biofuel production. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2200-2211	4.9	12
128	Fabrication and electrochemical performance of anode-supported solid oxide fuel cells based on proton-conducting lanthanum tungstate thin electrolyte. <i>Solid State Ionics</i> , 2019 , 337, 132-139	3.3	7
127	Assessing the performance of UK universities in the field of chemical engineering using data envelopment analysis. <i>Education for Chemical Engineers</i> , 2019 , 29, 29-41	2.4	5
126	Optical Losses at Gas Evolving Photoelectrodes: Implications for Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17-28	3.8	14
125	Deep learning-based surrogate modeling and optimization for microalgal biofuel production and photobioreactor design. <i>AIChE Journal</i> , 2019 , 65, 915-923	3.6	40
124	Recovery of excreted n-butanol from genetically engineered cyanobacteria cultures: Process modelling to quantify energy and economic costs of different separation technologies. <i>Algal Research</i> , 2019 , 37, 92-102	5	13
123	Catalysis in Flow: Nickel-Catalyzed Synthesis of Primary Amines from Alcohols and NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5479-5484	8.3	32
122	Towards autothermal hydrogen production by sorption-enhanced water gas shift and methanol reforming: A thermodynamic analysis. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 4211-4222	6.7	23
121	Continuous Flow Technologies in the Development of Green Organic Reactions and Processes. <i>Series on Chemistry, Energy and the Environment</i> , 2018 , 257-284	0.2	2

120	2-Iodoxybenzoic Acid Synthesis by Oxidation of 2-Iodobenzoic Acid at a Boron-Doped Diamond Anode. <i>ChemElectroChem</i> , 2018 , 5, 1002-1005	4.3	14
119	Assessing the scalability of low conductivity substrates for photo-electrodes via modelling of resistive losses. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12422-12429	3.6	13
118	Spatial, temporal and quantitative assessment of catalyst leaching in continuous flow. <i>Catalysis Today</i> , 2018 , 308, 64-70	5.3	23
117	Photocatalytic Production of Bisabolene from Green Microalgae Mutant: Process Analysis and Kinetic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10336-10344	3.9	12
116	Closing the carbon cycle to maximise climate change mitigation: power-to-methanol vs. power-to-direct air capture. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1153-1169	5.8	35
115	A versatile open-source analysis of the limiting efficiency of photo electrochemical water-splitting. <i>Scientific Reports</i> , 2018 , 8, 12807	4.9	7
114	Effect of carbon-based materials and CeO ₂ on Ni catalysts for Kraft lignin liquefaction in supercritical water. <i>Green Chemistry</i> , 2018 , 20, 4308-4318	10	18
113	One-pot hydrogen production and cascade reaction of furfural to bioproducts over bimetallic Pd-Ni TUD-1 type mesoporous catalysts. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 521-537	21.8	12
112	Base-free, tunable, Au-catalyzed oxidative esterification of alcohols in continuous flow. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 942-948	4.9	2
111	Photoelectrochemical Reaction Engineering for Solar Fuels Production 2018 , 1-41		2
110	Working fluid selection and electrical performance optimisation of a domestic solar-ORC combined heat and power system for year-round operation in the UK. <i>Applied Energy</i> , 2017 , 186, 291-303	10.7	120
109	Binuclear μ -diketimate complexes of copper(i). <i>Dalton Transactions</i> , 2017 , 46, 2081-2090	4.3	13
108	Catalysis in flow: O ₂ effect on the catalytic activity of Ru(OH) _x /Al ₂ O ₃ during the aerobic oxidation of an alcohol. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 60-67	4.9	11
107	Application of Water in Hydrothermal Conditions for Upgrading Heavy Oils: A Review. <i>Energy & Fuels</i> , 2017 , 31, 4571-4587	4.1	41
106	Membrane-less photoelectrochemical cells: product separation by hydrodynamic control. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1184-1198	5.8	21
105	Controlled multiphase oxidations for continuous manufacturing of fine chemicals. <i>Chemical Engineering Journal</i> , 2017 , 329, 220-230	14.7	6
104	A colorimetric method for rapid and selective quantification of peroxodisulfate, peroxomonosulfate and hydrogen peroxide. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 462-466	4.9	19
103	Effects of Cl on the reduction of supported PdO in ethanol/water solvent mixtures 2017 , 3, 54-62		4

102	Effect of retained chlorine in ENCATBO catalysts on the development of encapsulated Pd: insights from in situ Pd K, L3 and Cl K-edge XAS 2017 , 3, 149-156		4
101	Effect of process conditions on the hydrothermal partial oxidation of phenanthrene as a heavy oil model structure. <i>Fuel</i> , 2017 , 209, 434-441	7.1	9
100	Electricity generation from digitally printed cyanobacteria. <i>Nature Communications</i> , 2017 , 8, 1327	17.4	74
99	Towards sustainable hydrogenation of 5-(hydroxymethyl)furfural: a two-stage continuous process in aqueous media over RANEY□ catalysts. <i>RSC Advances</i> , 2017 , 7, 31401-31407	3.7	33
98	Catalytic Hydrotreatment of algal biocrude from fast Hydrothermal Liquefaction. <i>Renewable Energy</i> , 2017 , 101, 1094-1101	8.1	33
97	CFD analysis of hydrothermal conversion of heavy oil in continuous flow reactor. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 250-264	5.5	7
96	Pneumatic hydrodynamics influence transplastomic protein yields and biological responses during shoot regeneration of callus: Implications for bioprocess routes to plant-made biopharmaceuticals. <i>Biochemical Engineering Journal</i> , 2017 , 117, 73-81	4.2	2
95	MFI Acid Catalysts with Different Crystal Sizes and Porosity for the Conversion of Furanic Compounds in Alcohol Media. <i>ChemCatChem</i> , 2017 , 9, 2747-2759	5.2	13
94	A review on hydrothermal pre-treatment technologies and environmental profiles of algal biomass processing. <i>Bioresource Technology</i> , 2016 , 199, 288-299	11	103
93	Operando XAFS of supported Pd nanoparticles in flowing ethanol/water mixtures: implications for catalysis. <i>Green Chemistry</i> , 2016 , 18, 406-411	10	21
92	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. <i>Catalysis Science and Technology</i> , 2016 , 6, 8525-8531	5.5	7
91	Hydrothermal upgrading of algae paste: Inorganics and recycling potential in the aqueous phase. <i>Science of the Total Environment</i> , 2016 , 568, 489-497	10.2	31
90	Selective Oxidation of Methane to Methanol Over Cu- and Fe-Exchanged Zeolites: The Effect of Si/Al Molar Ratio. <i>Catalysis Letters</i> , 2016 , 146, 483-492	2.8	50
89	Toward a Green Generation of Oxidant on Demand: Practical Electrosynthesis of Ammonium Persulfate. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2027-2036	8.3	27
88	Sub and supercritical water reforming of n-hexadecane in a tubular flow reactor. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 723-732	4.2	19
87	Environmental profile of algal Hydrothermal Liquefaction □A country specific case study. <i>Algal Research</i> , 2016 , 16, 127-140	5	16
86	Aerobic oxidations in flow: opportunities for the fine chemicals and pharmaceuticals industries. <i>Reaction Chemistry and Engineering</i> , 2016 , 1, 595-612	4.9	109
85	Hydrothermal liquefaction and in situ supercritical transesterification of algae paste. <i>RSC Advances</i> , 2016 , 6, 86560-86568	3.7	5

84	Re-evaluating selectivity as a determining factor in peroxidative methane oxidation by multimetallic copper complexes. <i>Catalysis Science and Technology</i> , 2015 , 5, 4108-4115	5.5	9
83	Demonstration of a two-stage aerobic/anaerobic chemostat for the enhanced production of hydrogen and biomass from unicellular nitrogen-fixing cyanobacterium. <i>Algal Research</i> , 2015 , 10, 189-205	5.5	11
82	Modelling of light and temperature influences on cyanobacterial growth and biohydrogen production. <i>Algal Research</i> , 2015 , 9, 263-274	5	40
81	Morphological Modification of TiO ₂ Thin Films as Highly Efficient Photoanodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9088-97	9.5	34
80	An integrated process for biomass pyrolysis oil upgrading: A synergistic approach. <i>Biomass and Bioenergy</i> , 2015 , 76, 108-117	5.3	34
79	Hydrothermal upgrading of algae paste in a continuous flow reactor. <i>Bioresource Technology</i> , 2015 , 191, 460-8	11	41
78	Analysis of the cyanobacterial hydrogen photoproduction process via model identification and process simulation. <i>Chemical Engineering Science</i> , 2015 , 128, 130-146	4.4	21
77	An Assessment of Solar-Thermal Collector Designs for Small-Scale Combined Heating and Power Applications in the United Kingdom. <i>Heat Transfer Engineering</i> , 2015 , 36, 1332-1347	1.7	29
76	Catalysis in Flow: Why Leaching Matters. <i>Topics in Organometallic Chemistry</i> , 2015 , 249-262	0.6	7
75	Chemo- and diastereoselectivities in the electrochemical reduction of maleimides. <i>ChemSusChem</i> , 2015 , 8, 665-71	8.3	1
74	An assessment of solar-powered organic Rankine cycle systems for combined heating and power in UK domestic applications. <i>Applied Energy</i> , 2015 , 138, 605-620	10.7	188
73	Partial oxidation of n-hexadecane through decomposition of hydrogen peroxide in supercritical water. <i>Chemical Engineering Research and Design</i> , 2015 , 93, 565-575	5.5	15
72	Dynamic modelling of high biomass density cultivation and biohydrogen production in different scales of flat plate photobioreactors. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2429-38	4.9	26
71	From Organometallic Zinc and Copper Complexes to Highly Active Colloidal Catalysts for the Conversion of CO ₂ to Methanol. <i>ACS Catalysis</i> , 2015 , 5, 2895-2902	13.1	37
70	Optimal Operation Strategy for Biohydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6334-6343	3.9	22
69	Flux Response Technology (FRT) Applied in Zero Length Column Diffusivity and Adsorption Measurements. <i>Transport in Porous Media</i> , 2015 , 107, 731-744	3.1	
68	Modelling light transmission, cyanobacterial growth kinetics and fluid dynamics in a laboratory scale multiphase photo-bioreactor for biological hydrogen production. <i>Algal Research</i> , 2015 , 8, 99-107	5	35
67	A UK-based assessment of hybrid PV and solar-thermal systems for domestic heating and power: System performance. <i>Applied Energy</i> , 2014 , 122, 288-309	10.7	182

66	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO. <i>Organometallics</i> , 2014 , 33, 1112-1119	3.8	36
65	Effects of light and temperature on the photoautotrophic growth and photoinhibition of nitrogen-fixing cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Algal Research</i> , 2014 , 5, 103-111	5	33
64	A new HYSYS model for underground gasification of hydrocarbons under hydrothermal conditions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12648-12656	6.7	4
63	Photoelectrochemical performance of graphene-modified TiO ₂ photoanodes in the presence of glycerol as a hole scavenger. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18204-18215	6.7	32
62	Catalysis in flow: Operando study of Pd catalyst speciation and leaching. <i>Catalysis Today</i> , 2014 , 229, 95-103	10.3	43
61	Ethanol Steam Reforming over Calcium Doped Ni/Al ₂ O ₃ Catalyst. <i>Applied Mechanics and Materials</i> , 2014 , 625, 271-274	0.3	
60	Thermodynamic Analysis of Autothermal Reforming of Oxygenated Hydrocarbons at Thermoneutral Condition for Hydrogen Production. <i>Applied Mechanics and Materials</i> , 2014 , 625, 730-733	0.3	2
59	An attenuated total reflection Fourier transform infrared (ATR FT-IR) spectroscopic study of gas adsorption on colloidal stearate-capped ZnO catalyst substrate. <i>Applied Spectroscopy</i> , 2014 , 68, 88-94	3.1	7
58	Behaviour of Titanium-based Fe ₂ O ₃ Photo-Anodes in Photo-Electrochemical Reactors for Water Splitting. <i>Electrochimica Acta</i> , 2014 , 125, 266-274	6.7	15
57	Process and reactor design for biophotolytic hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10783-94	3.6	27
56	Hydrothermal deoxygenation of pyrolysis oil from Norwegian spruce: <i>Picea abies</i> . <i>Biomass and Bioenergy</i> , 2013 , 56, 446-455	5.3	9
55	Using temporal analysis of products and flux response technology to determine diffusion coefficients in catalytic monoliths. <i>Chemical Engineering Science</i> , 2013 , 87, 224-233	4.4	6
54	Hydrothermal upgrading of algae paste: Application of ³¹ P-NMR. <i>Environmental Progress and Sustainable Energy</i> , 2013 , 32, 1002-1012	2.5	15
53	A novel nutrient control method to deprive green algae of sulphur and initiate spontaneous hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8988-9001	6.7	24
52	Effect of the Light Regime and Phototrophic Conditions on Growth of the H ₂ -producing Green Alga <i>Chlamydomonas Reinhardtii</i> . <i>Energy Procedia</i> , 2012 , 29, 710-719	2.3	11
51	Catalysis in flow: Au-catalysed alkylation of amines by alcohols. <i>Green Chemistry</i> , 2012 , 14, 226-232	10	52
50	Flux response technology applied in zero length column diffusivity measurements. <i>Adsorption</i> , 2012 , 18, 403-415	2.6	1
49	Algal Biofuels: A Credible Prospective? 2012 , 2012, 1-14		20

48	Modelling and development of photoelectrochemical reactor for H ₂ production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2911-2923	6.7	64
47	Thermodynamic analysis of hydrogen production via hydrothermal gasification of hexadecane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5656-5664	6.7	22
46	Solar-driven hydrogen production in green algae. <i>Advances in Applied Microbiology</i> , 2011 , 75, 71-110	4.9	39
45	In situ measurement of gas adsorption processes using Flux Response Technology. <i>Adsorption</i> , 2011 , 17, 783-794	2.6	6
44	Parameters affecting the growth and hydrogen production of the green alga <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7872-7876	6.7	38
43	Design of a novel flat-plate photobioreactor system for green algal hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6578-6591	6.7	52
42	Evaluation and Modeling of a Photo-Electrochemical Reactor for Hydrogen Production Operating under High Photon Flux. <i>ECS Transactions</i> , 2011 , 35, 11-19	1	8
41	Modeling and Evaluation of a Photoelectrochemical Reactor for H ₂ Production. <i>ECS Transactions</i> , 2010 , 28, 103-117	1	5
40	Catalysis in flow: the practical and selective aerobic oxidation of alcohols to aldehydes and ketones. <i>Green Chemistry</i> , 2010 , 12, 2157	10	70
39	Viscosity of Binary Mixtures of Carbon Monoxide and Helium. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 303-306	2.8	4
38	Hydrous ferric oxide as an adsorbent in water treatment: Part 2. Adsorption studies. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 11-20	5.5	52
37	Hydrous ferric oxide as an adsorbent in water treatment. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 21-30	5.5	69
36	Propene partial oxidation over Au/Ag Alloy and Ag catalysts using electrochemical oxygen. <i>Solid State Ionics</i> , 2008 , 179, 1401-1404	3.3	8
35	Measurement of gas mixing volumes by Flux Response Technology. <i>Fluid Phase Equilibria</i> , 2007 , 256, 93-98	2.5	1
34	A New Solubility Model to Describe Biodiesel Formation Kinetics. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 383-389	5.5	19
33	Integrated knowledge based system for process synthesis. <i>Computer Aided Chemical Engineering</i> , 2007 , 437-442	0.6	
32	Model of a non-isothermal tubular ammonia reformer for fuel cell applications. <i>World Review of Science, Technology and Sustainable Development</i> , 2007 , 4, 161	1	
31	High-productive, nanostructured polyaniline membranes for gas separation. <i>Desalination</i> , 2006 , 199, 474-476	10.3	10

30	Measurement of the gradient of viscosity with composition of mixtures of non-ideal gases. <i>Chemical Engineering Science</i> , 2006 , 61, 6604-6615	4.4	1
29	Enhanced permeability of polyaniline based nano-membranes for gas separation. <i>Journal of Membrane Science</i> , 2006 , 282, 60-70	9.6	57
28	High performance direct ammonia solid oxide fuel cell. <i>Journal of Power Sources</i> , 2006 , 162, 198-206	8.9	79
27	Halide diffusion in polyaniline membranes. <i>Journal of Membrane Science</i> , 2006 , 270, 115-122	9.6	11
26	Optimising H ₂ production from model biogas via combined steam reforming and CO shift reactions. <i>Fuel</i> , 2005 , 84, 869-874	7.1	95
25	Towards ultrathin polyaniline films for gas separation. <i>Journal of Membrane Science</i> , 2005 , 253, 199-208	9.6	46
24	The effect of electrochemical oxygen on the selectivity of the partial oxidation of propene over silver catalysts. <i>Solid State Ionics</i> , 2005 , 176, 831-835	3.3	5
23	Computer modelling and numerical analysis of hydrodynamics and heat transfer in non-porous catalytic reactor for the decomposition of ammonia. <i>Chemical Engineering Science</i> , 2005 , 60, 5862-5877	4.4	13
22	Flux Response Analysis. <i>Chemical Engineering Research and Design</i> , 2004 , 82, 1397-1403	5.5	2
21	Preparation of novel mesoporous carbons for the adsorption of an inflammatory cytokine (IL-1 beta). <i>Biomaterials</i> , 2004 , 25, 2933-40	15.6	31
20	Structural Investigation of the High-Temperature Oxidation of Bismuth Sulfide Using TPO-MS and in Situ X-ray Diffraction Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3127-3132	3.9	12
19	Characterisation of carbon deposits on Ni/SiO ₂ in the reforming of CH ₄ /CO ₂ using fixed- and fluidised-bed reactors. <i>Catalysis Communications</i> , 2003 , 4, 203-207	3.2	51
18	Steam reforming of a clean model biogas over Ni/Al ₂ O ₃ in fluidized- and fixed-bed reactors. <i>Catalysis Today</i> , 2002 , 77, 181-189	5.3	104
17	HDS activity of phosphorus promoted co-precipitated iron/alumina catalysts. <i>Applied Catalysis A: General</i> , 2002 , 226, 79-86	5.1	3
16	Modelling and simulation of the flux responses of a gas-solid catalytic micro-reactor. <i>Chemical Engineering Science</i> , 2002 , 57, 953-966	4.4	3
15	Preparation and characterisation of polyaniline based membranes for gas separation. <i>Journal of Membrane Science</i> , 2001 , 184, 69-78	9.6	62
14	Use of numerical taxonomy and journal impact factors in the evaluation of chemical engineering academics' publications. <i>Journal of Information Science</i> , 2001 , 27, 371-375	2	
13	Flux response analysis: a new in situ technique for catalyst characterization. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 3107-3112	1.8	

12	In situ determination of the viscosity of gas mixtures containing trace quantities of oxygen. <i>AIChE Journal</i> , 2000 , 46, 1449-1453	3.6	3
11	Remote sensing of the flux responses of a gas-solid catalytic micro-reactor. <i>Chemical Engineering Science</i> , 2000 , 55, 1621-1632	4.4	7
10	Intermediate temperature solid oxide fuel cells operated with methanol fuels. <i>Chemical Engineering Science</i> , 2000 , 55, 3077-3083	4.4	48
9	Citation Ootprint Analysis Part I: UK and US Chemical Engineering Academics. <i>Scientometrics</i> , 2000 , 49, 289-305	3	4
8	Transformations of ferrihydrite during calcination and sulphidation. <i>Catalysis Today</i> , 1999 , 49, 79-86	5.3	4
7	Wastewater treatment: wet air oxidation as a precursor to biological treatment. <i>Catalysis Today</i> , 1999 , 53, 93-106	5.3	62
6	Effect of pH of Precipitation on the Preparation of High Surface Area Aluminas from Nitrate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 405-411	3.9	45
5	Optimisation of Palladium-Based Supported Liquid-Phase Catalysts in the Heck Reaction. <i>Organic Process Research and Development</i> , 1998 , 2, 325-331	3.9	21
4	Palladium catalysed heck reactions and allylic substitution reactions using glass bead technology. <i>Tetrahedron Letters</i> , 1997 , 38, 4319-4322	2	51
3	Design of sample holders for surface analysis of powders. <i>Review of Scientific Instruments</i> , 1996 , 67, 4025-4026	4.7	263
2	Rapid formation of 2-lithio-1-(triphenylmethyl)imidazole and substitution reactions in flow. <i>Reaction Chemistry and Engineering</i> ,	4.9	0
1	Effects of PEG templating of spray-pyrolyzed TiO ₂ films on their nanoscale roughness and eventual photoelectrochemical properties. <i>Journal of Applied Electrochemistry</i> , 1	2.6	0