Christopher Hardacre

List of Publications by Year
in descending order

466 papers	25,539 citations	7568 77 h-index	11939 134 g-index
488 all docs	488 docs citations	488 times ranked	20048 citing authors

#	Article	IF	Citations
1	Correlating the strength of reducing agent adsorption with Ag/Al2O3 catalyst performances in selective catalytic reduction (SCR) of NOx. Catalysis Today, 2022, 384-386, 274-278.	4.4	13
2	Comparison between the thermal and plasma (NTP) assisted palladium catalyzed oxidation of CH4 using AC or nanopulse power supply. Catalysis Today, 2022, 384-386, 177-186.	4.4	5
3	Effect of Ball-Milling Pretreatment of Cellulose on Its Photoreforming for H₂ Production. ACS Sustainable Chemistry and Engineering, 2022, 10, 4862-4871.	6.7	22
4	Surfactant-free Synthesis of Spiky Hollow Agâ€“Au Nanostars with Chemically Exposed Surfaces for Enhanced Catalysis and Single-Particle SERS. Jacs Au, 2022, 2, 178-187.	7.9	28
5	Optimization of Non-thermal Plasma-Assisted Catalytic Oxidation for Methane Emissions Abatement as an Exhaust Aftertreatment Technology. Plasma Chemistry and Plasma Processing, 2022, 42, 709-730.	2.4	1
6	Selective Hydrogenation of Stearic Acid Using Mechanochemically Prepared Titania-Supported Pt and Ptâ€“Re Bimetallic Catalysts. ACS Sustainable Chemistry and Engineering, 2022, 10, 6934-6941.	6.7	8
7	Shielding Protection by Mesoporous Catalysts for Improving Plasma-Catalytic Ambient Ammonia Synthesis. Journal of the American Chemical Society, 2022, 144, 12020-12031.	13.7	75
8	Photocatalytic Reforming of Biomass: What Role Will the Technology Play in Future Energy Systems. Topics in Current Chemistry, 2022, 380, .	5.8	16
9	High-Ionic-Strength Wastewater Treatment via Catalytic Wet Oxidation over a MnCeO_x Catalyst. ACS Catalysis, 2022, 12, 7598-7608.	11.2	9
10	Combined Superbase Ionic Liquid Approach to Separate CO₂ from Flue Gas. ACS Sustainable Chemistry and Engineering, 2022, 10, 9453-9459.	6.7	2
11	Elucidating the role of H2O in promoting the formation of methacrylic acid during the oxidation of methacrolein over heteropolyacid compounds. Faraday Discussions, 2021, 229, 443-457.	3.2	5
12	Contrasting the EXAFS obtained under air and H₂ environments to reveal details of the surface structure of Ptâ€“Sn nanoparticles. Physical Chemistry Chemical Physics, 2021, 23, 11738-11745.	2.8	3
13	Life cycle thinking case study for catalytic wet air oxidation of lignin in bamboo biomass for vanillin production. Green Chemistry, 2021, 23, 1847-1860.	9.0	6
14	Dry reforming of methane on bimetallic Ptâ€“Ni@CeO₂catalyst: ain situDRIFTS-MS mechanistic study. Catalysis Science and Technology, 2021, 11, 5260-5272.	4.1	30
15	Catalytic decomposition of NO2 over a copper-decorated metalâ€“organic framework by non-thermal plasma. Cell Reports Physical Science, 2021, 2, 100349.	5.6	10
16	Performance of Ionic Liquid-Water Mixtures in an Acetone Cooling Application. Sustainability, 2021, 13, 2949.	3.2	2
17	Investigations into the synthesis of a nucleotide dimer via mechanochemical phosphoramidite chemistry. Royal Society Open Science, 2021, 8, 201703.	2.4	5
18	Non-thermal plasma catalysis for CO₂ conversion and catalyst design for the process. Journal Physics D: Applied Physics, 2021, 54, 233001.	2.8	52

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19	Thermophysical Properties of 1-Butyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate, [C₄mim][(C₂F₅)₃PF₃], and of Its IoNanofluid with Multi-Walled Carbon Nanotubes. Journal of Chemical & Engineering Data, 2021, 66, 1717-1729.	1.9	14
20	Bulk and Confined Benzene-Cyclohexane Mixtures Studied by an Integrated Total Neutron Scattering and NMR Method. Topics in Catalysis, 2021, 64, 722-734.	2.8	6
21	Exploring lignin valorisation: the application of photocatalysis for the degradation of the Î²-5 linkage. JPhys Energy, 2021, 3, 035002.	5.3	8
22	Combined Experimental and Theoretical Study of the Competitive Absorption of CO₂ and NO₂ by a Superbase Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2021, 9, 7578-7586.	6.7	10
23	Applications of Mechanochemistry for the Synthesis of DNA on Ionic Liquid Supports. Chemistry Methods, 2021, 1, 382-388.	3.8	3
24	Arc Synthesis, Crystal Structure, and Photoelectrochemistry of Copper(I) Tungstate. ACS Applied Materials & Interfaces, 2021, 13, 32865-32875.	8.0	11
25	Atomically Dispersed Copper Sites in a Metalâ€“Organic Framework for Reduction of Nitrogen Dioxide. Journal of the American Chemical Society, 2021, 143, 10977-10985.	13.7	66
26	Structured silicaliteâ€1 encapsulated Ni catalyst supported on <scp>SiC</scp> foam for dry reforming of methane. AICHE Journal, 2021, 67, e17126.	3.6	24
27	Near-Ambient Pressure XPS and NEXAFS Study of a Superbasic Ionic Liquid with CO₂. Journal of Physical Chemistry C, 2021, 125, 22778-22785.	3.1	10
28	A Simple and Ligandâ€Free Synthesis of Light and Durable Metalâ€TiO₂ Polymer Films with Enhanced Photocatalytic Properties. Advanced Materials Interfaces, 2021, 8, .	3.7	4
29	Plasma-assisted catalytic dry reforming of methane (DRM) over metal-organic frameworks (MOFs)-based catalysts. Applied Catalysis B: Environmental, 2020, 260, 118195.	20.2	135
30	Nonthermal plasma (NTP) activated metalâ€“organic frameworks (MOFs) catalyst for catalytic CO₂ hydrogenation. AICHE Journal, 2020, 66, e16853.	3.6	33
31	CO Poisoning of Ru Catalysts in CO₂ Hydrogenation under Thermal and Plasma Conditions: A Combined Kinetic and Diffuse Reflectance Infrared Fourier Transform Spectroscopyâ€“Mass Spectrometry Study. ACS Catalysis, 2020, 10, 12828-12840.	11.2	59
32	Dehydrochlorination of PVC in multi-layered blisterpacks using ionic liquids. Green Chemistry, 2020, 22, 5132-5142.	9.0	23
33	Industrial Applications of Ionic Liquids. Molecules, 2020, 25, 5207.	3.8	274
34	Structured Ni@<scp>NaA</scp> zeolite supported on silicon carbide foam catalysts for catalytic carbon dioxide methanation. AICHE Journal, 2020, 66, e17007.	3.6	15
35	Preface to Special Issue on 5th UK Catalysis Conference (UKCC 2019). Topics in Catalysis, 2020, 63, 255-255.	2.8	1
36	Kinetic Study of Nonthermal Plasma Activated Catalytic CO2 Hydrogenation over Ni Supported on Silica Catalyst. Industrial & Engineering Chemistry Research, 2020, 59, 9478-9487.	3.7	15

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37	Scale-up of cluster beam deposition to the gram scale with the matrix assembly cluster source for heterogeneous catalysis (propylene combustion). AIP Advances, 2020, 10, 025314.	1.3	13
38	Probing the dynamics and structure of confined benzene in MCM-41 based catalysts. Physical Chemistry Chemical Physics, 2020, 22, 11485-11489.	2.8	8
39	Recent advances in non-thermal plasma (NTP) catalysis towards C1 chemistry. Chinese Journal of Chemical Engineering, 2020, 28, 2010-2021.	3.5	38
40	Kinetics of Water Gas Shift Reaction on Au/CeZrO4: A Comparison Between Conventional Heating and Dielectric Barrier Discharge (DBD) Plasma Activation. Topics in Catalysis, 2020, 63, 363-369.	2.8	11
41	Systematic study of H2 production from catalytic photoreforming of cellulose over Pt catalysts supported on TiO2. Chinese Journal of Chemical Engineering, 2020, 28, 2084-2091.	3.5	17
42	Mechanistic study of non-thermal plasma assisted CO2 hydrogenation over Ru supported on MgAl layered double hydroxide. Applied Catalysis B: Environmental, 2020, 268, 118752.	20.2	101
43	Spatially-resolved investigation of the water inhibition of methane oxidation over palladium. Catalysis Science and Technology, 2020, 10, 1858-1874.	4.1	10
44	Synchrotron Radiation and Catalytic Science. Synchrotron Radiation News, 2020, 33, 10-14.	0.8	1
45	Hydrogenation of benzoic acid to benzyl alcohol over Pt/SnO2. Applied Catalysis A: General, 2020, 593, 117420.	4.3	15
46	A design of a fixed bed plasma DRIFTS cell for studying the NTP-assisted heterogeneously catalysed reactions. Catalysis Science and Technology, 2020, 10, 1458-1466.	4.1	17
47	Effect of metal dispersion and support structure of Ni/silicalite-1 catalysts on non-thermal plasma (NTP) activated CO2 hydrogenation. Applied Catalysis B: Environmental, 2020, 272, 119013.	20.2	48
48	Integration of Membrane Separation with Nonthermal Plasma Catalysis: A Proof-of-Concept for CO₂ Capture and Utilization. Industrial & Engineering Chemistry Research, 2020, 59, 8202-8211.	3.7	19
49	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids). Australian Journal of Chemistry, 2019, 72, 21.	0.9	23
50	SCILLs as selective catalysts for the oxidation of aromatic alcohols. Catalysis Today, 2019, 333, 140-146.	4.4	11
51	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. Nano Letters, 2019, 19, 6475-6481.	9.1	32
52	Investigation of the oxygen storage capacity behaviour of three way catalysts using spatio-temporal analysis. Applied Catalysis B: Environmental, 2019, 258, 117918.	20.2	16
53	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 15610-15616.	2.0	9
54	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 15464-15470.	13.8	31

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55	Coupling non-thermal plasma with Ni catalysts supported on BETA zeolite for catalytic CO₂ methanation. Catalysis Science and Technology, 2019, 9, 4135-4145.	4.1	68
56	Aldol Condensation of 5-Hydroxymethylfurfural to Fuel Precursor over Novel Aluminum Exchanged-DTP@ZIF-8. ACS Sustainable Chemistry and Engineering, 2019, 7, 16215-16224.	6.7	37
57	Aqueous-phase tandem catalytic conversion of xylose to furfuryl alcohol over [Al]-SBA-15 molecular sieves. Catalysis Science and Technology, 2019, 9, 5350-5358.	4.1	13
58	Structural selectivity of supported Pd nanoparticles for catalytic NH3 oxidation resolved using combined operando spectroscopy. Nature Catalysis, 2019, 2, 157-163.	34.4	74
59	Novelty of iron-exchanged heteropolyacid encapsulated inside ZIF-8 as an active and superior catalyst in the esterification of furfuryl alcohol and acetic acid. Reaction Chemistry and Engineering, 2019, 4, 1790-1802.	3.7	12
60	Self-Limiting Growth of Two-Dimensional Palladium between Graphene Oxide Layers. Nano Letters, 2019, 19, 4678-4683.	9.1	18
61	Kinetics of Hydrogenation of Acetic Acid over Supported Platinum Catalyst. Energy & Fuels, 2019, 33, 5551-5560.	5.1	9
62	Microwave-assisted catalyst-free hydrolysis of fibrous cellulose for deriving sugars and biochemicals. Frontiers of Chemical Science and Engineering, 2019, 13, 718-726.	4.4	16
63	Highly Selective and Solvent-Dependent Reduction of Nitrobenzene to N-Phenylhydroxylamine, Azoxybenzene, and Aniline Catalyzed by Phosphino-Modified Polymer Immobilized Ionic Liquid-Stabilized AuNPs. ACS Catalysis, 2019, 9, 4777-4791.	11.2	77
64	Catalytic Hydrogenation of Short Chain Carboxylic Acids Typical of Model Compound Found in Bio-Oils. Industrial & Engineering Chemistry Research, 2019, 58, 7998-8008.	3.7	12
65	Reversible Reaction of CO₂ with Superbasic Ionic Liquid [P₆₆₆₁₄][benzim] Studied with in Situ Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 7134-7141.	3.1	4
66	Combined spatially resolved operando spectroscopy: New insights into kinetic oscillations of CO oxidation on Pd/Î³-Al2O3. Journal of Catalysis, 2019, 373, 201-208.	6.2	19
67	Ionic liquid-based nanofluids (ionanofluids) for thermal applications: an experimental thermophysical characterization. Pure and Applied Chemistry, 2019, 91, 1309-1340.	1.9	29
68	Investigating the Effect of NO on the Capture of CO2 Using Superbase Ionic Liquids for Flue Gas Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 3567-3574.	6.7	29
69	Defects-healing of SAPO-34 membrane by post-synthesis modification using organosilica for selective CO2 separation. Journal of Membrane Science, 2019, 575, 80-88.	8.2	28
70	Sustaining metalâ€“organic frameworks for waterâ€“gas shift catalysis by non-thermal plasma. Nature Catalysis, 2019, 2, 142-148.	34.4	123
71	Confinement Effects on the Benzene Orientational Structure. Angewandte Chemie - International Edition, 2018, 57, 4565-4570.	13.8	21
72	Confinement Effects on the Benzene Orientational Structure. Angewandte Chemie, 2018, 130, 4655-4660.	2.0	3

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73	A new insight into pure and water-saturated quaternary phosphonium-based carboxylate ionic liquids: Density, heat capacity, ionic conductivity, thermogravimetric analysis, thermal conductivity and viscosity. Journal of Chemical Thermodynamics, 2018, 121, 97-111.	2.0	59
74	Diffusion, Ion Pairing and Aggregation in 1â€Ethylâ€3â€Methylimidazoliumâ€Based Ionic Liquids Studied by ¹H and ¹⁹F PFG NMR: Effect of Temperature, Anion and Glucose Dissolution. ChemPhysChem, 2018, 19, 1081-1088.	2.1	50
75	Effect of Mass Transport on the Electrochemical Oxidation of Alcohols Over Electrodeposited Film and Carbon-Supported Pt Electrodes. Topics in Catalysis, 2018, 61, 240-253.	2.8	36
76	Preface for Special Issue in Celebration of the 3rd UK Catalysis Conference (UKCC). Topics in Catalysis, 2018, 61, 143-143.	2.8	0
77	Complex Oxides Based on Silver, Bismuth, and Tungsten: Syntheses, Characterization, and Photoelectrochemical Behavior. Journal of Physical Chemistry C, 2018, 122, 13473-13480.	3.1	11
78	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids). Journal of Molecular Liquids, 2018, 253, 326-339.	4.9	51
79	Catalytic depolymerisation of suberin rich biomass with precious metal catalysts. Green Chemistry, 2018, 20, 2702-2705.	9.0	17
80	Effects of heat treatment atmosphere on the structure and activity of Pt₃Sn nanoparticle electrocatalysts: a characterisation case study. Faraday Discussions, 2018, 208, 555-573.	3.2	14
81	Impact of SCILL catalysts for the Sâ€“S coupling of thiols to disulfides. Faraday Discussions, 2018, 206, 535-547.	3.2	5
82	Further development of the predictive models for physical properties of pure ionic liquids: Thermal conductivity and heat capacity. Journal of Chemical Thermodynamics, 2018, 118, 1-15.	2.0	45
83	Non-thermal-plasma-activated de-NO _x catalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170054.	3.4	17
84	Understanding the Competitive Gas Absorption of CO₂ and SO₂ in Superbase Ionic Liquids. Industrial & Engineering Chemistry Research, 2018, 57, 17033-17042.	3.7	22
85	Acyclic and Cyclic Alkyl and Etherâ€Functionalised Sulfonium Ionic Liquids Based on the [TFSI]^{â^'} and [FSI]^{â^'} Anions as Potential Electrolytes for Electrochemical Applications. ChemPhysChem, 2018, 19, 3226-3236.	2.1	12
86	Research Progress in the Selective Catalytic Reduction of NOx by H2 in the Presence of O2. Catalysis Surveys From Asia, 2018, 22, 146-155.	2.6	23
87	Unraveling the H₂ Promotional Effect on Palladium-Catalyzed CO Oxidation Using a Combination of Temporally and Spatially Resolved Investigations. ACS Catalysis, 2018, 8, 8255-8262.	11.2	19
88	Understanding the CO Oxidation on Pt Nanoparticles Supported on MOFs by Operando XPS. ChemCatChem, 2018, 10, 4238-4242.	3.7	35
89	An integrated total neutron scattering â€“ NMR approach for the study of heterogeneous catalysis. Chemical Communications, 2018, 54, 10191-10194.	4.1	8
90	Insights into the mechanism of electrochemical ozone production via water splitting on the Ni and Sb doped SnO₂ catalyst. Physical Chemistry Chemical Physics, 2017, 19, 3800-3806.	2.8	18

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91	Liquidâ€“Liquid Equilibria of Ionic Liquidsâ€“Waterâ€“Acetic Acid Mixtures. Journal of Chemical & Engineering Data, 2017, 62, 653-664.	1.9	25
92	Selective hydrogenation of acetylene over Cu(211), Ag(211) and Au(211): Horiutiâ€“Polanyi mechanism vs. non-Horiutiâ€“Polanyi mechanism. Catalysis Science and Technology, 2017, 7, 1508-1514.	4.1	43
93	Nonâ€Thermal Plasma Activation of Goldâ€Based Catalysts for Lowâ€Temperature Waterâ€“Gas Shift Catalysis. Angewandte Chemie, 2017, 129, 5671-5675.	2.0	11
94	Nonâ€Thermal Plasma Activation of Goldâ€Based Catalysts for Lowâ€Temperature Waterâ€“Gas Shift Catalysis. Angewandte Chemie - International Edition, 2017, 56, 5579-5583.	13.8	77
95	Probing the Role of a Nonâ€Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. Angewandte Chemie - International Edition, 2017, 56, 9351-9355.	13.8	58
96	Thermophysical and Electrochemical Properties of Ethereal Functionalised Cyclic Alkylammoniumâ€based Ionic Liquids as Potential Electrolytes for Electrochemical Applications. ChemPhysChem, 2017, 18, 2040-2057.	2.1	38
97	Heterocyclic bismuth(<scp>iii</scp>) compounds with transannular Nâ†'Bi interactions as catalysts for the oxidation of thiophenol to diphenyldisulfide. Catalysis Science and Technology, 2017, 7, 5343-5353.	4.1	25
98	Using chiral ionic liquid additives to enhance asymmetric induction in a Dielsâ€“Alder reaction. Dalton Transactions, 2017, 46, 1704-1713.	3.3	10
99	Physicalâ€“Chemical Characterization of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Bis{(trifluoromethyl)sulfonyl}imide and Aliphatic Nitrile Solvents as Potential Electrolytes for Electrochemical Energy Storage Applications. Journal of Chemical & Engineering Data, 2017, 62, 376-390.	1.9	37
100	Influence of Fluorination on the Solubilities of Carbon Dioxide, Ethane, and Nitrogen in 1-n-Fluoro-alkyl-3-methylimidazolium Bis(n-fluoroalkylsulfonyl)amide Ionic Liquids. Journal of Physical Chemistry B, 2017, 121, 426-436.	2.6	44
101	Combined In Situ XAFS/DRIFTS Studies of the Evolution of Nanoparticle Structures from Molecular Precursors. Chemistry of Materials, 2017, 29, 7515-7523.	6.7	26
102	The Structure of Ethylbenzene, Styrene and Phenylacetylene Determined by Total Neutron Scattering. ChemPhysChem, 2017, 18, 2541-2548.	2.1	10
103	Probing the Role of a Nonâ€Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. Angewandte Chemie, 2017, 129, 9479-9483.	2.0	3
104	Physical and Electrochemical Investigations into Blended Electrolytes Containing a Glyme Solvent and Two Bis{(trifluoromethyl)sulfonyl}imide-Based Ionic Liquids. Journal of the Electrochemical Society, 2017, 164, H5124-H5134.	2.9	9
105	Factors affecting bubble size in ionic liquids. Physical Chemistry Chemical Physics, 2017, 19, 14306-14318.	2.8	11
106	Neutron Scattering of Aromatic and Aliphatic Liquids. ChemPhysChem, 2016, 17, 2043-2055.	2.1	41
107	Determination of toluene hydrogenation kinetics with neutron diffraction. Physical Chemistry Chemical Physics, 2016, 18, 17237-17243.	2.8	7
108	A novel methodology for assessing the environmental sustainability of ionic liquids used for CO₂ capture. Faraday Discussions, 2016, 192, 283-301.	3.2	44

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109	Effect of cation structure on the oxygen solubility and diffusivity in a range of bis{(trifluoromethyl)sulfonyl}imide anion based ionic liquids for lithiumâ€“air battery electrolytes. Physical Chemistry Chemical Physics, 2016, 18, 11251-11262.	2.8	39
110	Techno-Economic Feasibility of Selective CO₂ Capture Processes from Biogas Streams Using Ionic Liquids as Physical Absorbents. Energy & Fuels, 2016, 30, 5052-5064.	5.1	72
111	Biobutanol as Fuel for Direct Alcohol Fuel Cellsâ€"Investigation of Sn-Modified Pt Catalyst for Butanol Electro-oxidation. ACS Applied Materials & Interfaces, 2016, 8, 12859-12870.	8.0	43
112	Synthesis and Thermophysical Properties of Etherâ€Functionalized Sulfonium Ionic Liquids as Potential Electrolytes for Electrochemical Applications. ChemPhysChem, 2016, 17, 3992-4002.	2.1	30
113	H ₂ production by the photocatalytic reforming of cellulose and raw biomass using Ni, Pd, Pt and Au on titania. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160054.	2.1	80
114	Combined EXAFS, XRD, DRIFTS, and DFT Study of Nano Copper-Based Catalysts for CO₂ Hydrogenation. ACS Catalysis, 2016, 6, 5823-5833.	11.2	51
115	An ether-functionalised cyclic sulfonium based ionic liquid as an electrolyte for electrochemical double layer capacitors. Journal of Power Sources, 2016, 326, 549-559.	7.8	27
116	The use of binary mixtures of 1-butyl-1-methylpyrrolidinium bis{(trifluoromethyl)sulfonyl}imide and aliphatic nitrile solvents as electrolyte for supercapacitors. Electrochimica Acta, 2016, 220, 146-155.	5.2	41
117	Mercury capture on a supported chlorocuprate(<scp>ii</scp>) ionic liquid adsorbent studied using operando synchrotron X-ray absorption spectroscopy. Dalton Transactions, 2016, 45, 18946-18953.	3.3	14
118	Solubility study of tobramycin in room temperature ionic liquids: an experimental and computational based study. RSC Advances, 2016, 6, 107214-107218.	3.6	2
119	Continuous flow gas phase photoreforming of methanol at elevated reaction temperatures sensitised by Pt/TiO₂. Reaction Chemistry and Engineering, 2016, 1, 649-657.	3.7	22
120	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. ACS Catalysis, 2016, 6, 1356-1381.	11.2	70
121	Catalysis making the world a better place: satellite meeting. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150358.	3.4	6
122	Effect of the Presence of MEA on the CO₂ Capture Ability of Superbase Ionic Liquids. Journal of Chemical & Engineering Data, 2016, 61, 1092-1100.	1.9	28
123	Selective hydrogenation of halogenated arenes using porous manganese oxide (OMS-2) and platinum supported OMS-2 catalysts. Faraday Discussions, 2016, 188, 451-466.	3.2	23
124	Importance of surface carbide formation on the activity and selectivity of Pd surfaces in the selective hydrogenation of acetylene. Surface Science, 2016, 646, 45-49.	1.9	45
125	Assessing the effect of reducing agents on the selective catalytic reduction of NO_x over Ag/Al₂O₃ catalysts. Catalysis Science and Technology, 2016, 6, 1661-1666.	4.1	32
126	Arene cisâ€Diol Dehydrogenaseâ€Catalysed Regioâ€•and Stereoselective Oxidation of Areneâ€; Cycloalkaneâ€•and Cycloalkeneâ€•cisâ€diols to Yield Catechols and Chiral Î±â€Ketols. Advanced Synthesis and Catalysis, 2015, 357, 1881-1894.	4.3	8

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127	A Combined Raman Spectroscopic and Thermogravimetric Analysis Study on Oxidation of Coal with Different Ranks. Journal of Analytical Methods in Chemistry, 2015, 2015, 1-8.	1.6	13
128	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO /TiO2 catalyst. Journal of Catalysis, 2015, 328, 197-207.	6.2	72
129	Re-dispersion of gold supported on a â€˜mixedâ€™ oxide support. Journal of Lithic Studies, 2015, 1, 120-124.	0.5	3
130	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. Angewandte Chemie - International Edition, 2015, 54, 14164-14168.	13.8	134
131	Probing a Non-Thermal Plasma Activated Heterogeneously Catalyzed Reaction Using in Situ DRIFTS-MS. ACS Catalysis, 2015, 5, 956-964.	11.2	74
132	Naphthenic acid extraction and speciation from Doba crude oil using carbonate-based ionic liquids. Fuel, 2015, 146, 60-68.	6.4	32
133	One-Electron Reduction of 2-Nitrotoluene, Nitrocyclopentane, and 1-Nitrobutane in Room Temperature Ionic Liquids: A Comparative Study of Butlerâ€“Volmer and Symmetric Marcusâ€“Hush Theories Using Microdisk Electrodes. Journal of Physical Chemistry C, 2015, 119, 3634-3647.	3.1	6
134	Mechanochemical preparation of Ag catalysts for the n-octane-SCR de-NOx reaction: Structural and reactivity effects. Catalysis Today, 2015, 246, 198-206.	4.4	12
135	Microelectrode Voltammetry of Dioxygen Reduction in a Phosphonium Cation-Based Room-Temperature Ionic Liquid: Quantitative Studies. Journal of Physical Chemistry C, 2015, 119, 2716-2726.	3.1	32
136	Direct oxidation of amines to nitriles in the presence of ruthenium-terpyridyl complex immobilized on ILs/SILP. Catalysis Science and Technology, 2015, 5, 2696-2704.	4.1	18
137	CO2 capture and electrochemical conversion using superbasic [P66614][124Triz]. Faraday Discussions, 2015, 183, 389-400.	3.2	21
138	Development of a PtSn bimetallic catalyst for direct fuel cells using bio-butanol fuel. Chemical Communications, 2015, 51, 13412-13415.	4.1	9
139	CO2 Capture in Wet and Dry Superbase Ionic Liquids. Journal of Solution Chemistry, 2015, 44, 511-527.	1.2	58
140	Activity Enhancement of Tetrahexahedral Pd Nanocrystals by Bi Decoration towards Ethanol Electrooxidation in Alkaline Media. Electrochimica Acta, 2015, 162, 290-299.	5.2	14
141	Application of Asymmetric Marcusâ€“Hush Theory to Voltammetry in Room-Temperature Ionic Liquids. Journal of Physical Chemistry C, 2015, 119, 7360-7370.	3.1	16
142	Metal Redispersion Strategies for Recycling of Supported Metal Catalysts: A Perspective. ACS Catalysis, 2015, 5, 3430-3445.	11.2	154
143	Structure and dynamics of aqueous 2-propanol: a THz-TDS, NMR and neutron diffraction study. Physical Chemistry Chemical Physics, 2015, 17, 30481-30491.	2.8	29
144	The addition of CO₂to four superbase ionic liquids: a DFT study. Physical Chemistry Chemical Physics, 2015, 17, 28674-28682.	2.8	20

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145	Preliminary Investigation on the Electrochemical Activity of Butanol Isomers as Potential Fuel for Direct Alcohol Fuel Cell. ECS Transactions, 2015, 69, 809-816.	0.5	3
146	A kinetic analysis methodology to elucidate the roles of metal, support and solvent for the hydrogenation of 4-phenyl-2-butanone over Pt/TiO2. Journal of Catalysis, 2015, 330, 362-373.	6.2	12
147	Effect of solvent on the hydrogenation of 4-phenyl-2-butanone over Pt based catalysts. Journal of Catalysis, 2015, 330, 344-353.	6.2	49
148	Development of a diffuse reflectance infrared fourier transform spectroscopy (DRIFTS) cell for the in situ analysis of co-electrolysis in a solid oxide cell. Faraday Discussions, 2015, 182, 97-111.	3.2	14
149	Determining adsorbate configuration on alumina surfaces with ¹³C nuclear magnetic resonance relaxation time analysis. Physical Chemistry Chemical Physics, 2015, 17, 20830-20839.	2.8	7
150	Efficient and selective hydrogen peroxide-mediated oxidation of sulfides in batch and segmented and continuous flow using a peroxometalate-based polymer immobilised ionic liquid phase catalyst. Green Chemistry, 2015, 17, 1559-1571.	9.0	63
151	The effects of stepped sites and ruthenium adatom decoration on methanol dehydrogenation over platinum-based catalyst surfaces. Catalysis Today, 2015, 242, 230-239.	4.4	10
152	The origin of high activity but low CO2 selectivity on binary PtSn in the direct ethanol fuel cell. Physical Chemistry Chemical Physics, 2014, 16, 9432-9440.	2.8	56
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