

Christopher Hardacre

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.

457
papers

21,380
citations

73
h-index

123
g-index

488
ext. papers

23,270
ext. citations

6.1
avg, IF

6.98
L-index

#	Paper	IF	Citations
457	Effect of Ball-Milling Pretreatment of Cellulose on Its Photoreforming for H ₂ Production.. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 4862-4871	8.3	4
456	Surfactant-free Synthesis of Spiky Hollow Ag-Au Nanostars with Chemically Exposed Surfaces for Enhanced Catalysis and Single-Particle SERS.. <i>Jacs Au</i> , 2022 , 2, 178-187		6
455	Near-Ambient Pressure XPS and NEXAFS Study of a Superbasic Ionic Liquid with CO ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22778-22785	3.8	0
454	Investigations into the synthesis of a nucleotide dimer via mechanochemical phosphoramidite chemistry. <i>Royal Society Open Science</i> , 2021 , 8, 201703	3.3	4
453	Non-thermal plasma catalysis for CO ₂ conversion and catalyst design for the process. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 233001	3	10
452	Thermophysical Properties of 1-Butyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate, [C ₄ mim][(C ₂ F ₅) ₃ PF ₃], and of Its Ionanofluid with Multi-Walled Carbon Nanotubes. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1717-1729	2.8	8
451	Bulk and Confined Benzene-Cyclohexane Mixtures Studied by an Integrated Total Neutron Scattering and NMR Method. <i>Topics in Catalysis</i> , 2021 , 64, 722-734	2.3	0
450	Comparison between the thermal and plasma (NTP) assisted palladium catalyzed oxidation of CH ₄ using AC or nanopulse power supply. <i>Catalysis Today</i> , 2021 , 384-386, 177-177	5.3	0
449	Exploring lignin valorisation: the application of photocatalysis for the degradation of the β linkage. <i>JPhys Energy</i> , 2021 , 3, 035002	4.9	3
448	Combined Experimental and Theoretical Study of the Competitive Absorption of CO and NO by a Superbase Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7578-7586	8.3	3
447	Applications of Mechanochemistry for the Synthesis of DNA on Ionic Liquid Supports. <i>Chemistry Methods</i> , 2021 , 1, 382-388		2
446	Arc Synthesis, Crystal Structure, and Photoelectrochemistry of Copper(I) Tungstate. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32865-32875	9.5	3
445	Elucidating the role of HO in promoting the formation of methacrylic acid during the oxidation of methacrolein over heteropolyacid compounds. <i>Faraday Discussions</i> , 2021 , 229, 443-457	3.6	1
444	Contrasting the EXAFS obtained under air and H ₂ environments to reveal details of the surface structure of Pt-Sn nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11738-11745	3.6	
443	Life cycle thinking case study for catalytic wet air oxidation of lignin in bamboo biomass for vanillin production. <i>Green Chemistry</i> , 2021 , 23, 1847-1860	10	4
442	Catalytic decomposition of NO ₂ over a copper-decorated metal-organic framework by non-thermal plasma. <i>Cell Reports Physical Science</i> , 2021 , 2, 100349	6.1	3
441	Correlating the strength of reducing agent adsorption with Ag/Al ₂ O ₃ catalyst performances in selective catalytic reduction (SCR) of NO _x . <i>Catalysis Today</i> , 2021 , 384-386, 274-274	5.3	4

440	Performance of Ionic Liquid-Water Mixtures in an Acetone Cooling Application. <i>Sustainability</i> , 2021 , 13, 2949	3.6	1
439	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10977-10985	16.4	15
438	Structured silicalite-1 encapsulated Ni catalyst supported on SiC foam for dry reforming of methane. <i>AIChE Journal</i> , 2021 , 67, e17126	3.6	6
437	Kinetic Study of Nonthermal Plasma Activated Catalytic CO ₂ Hydrogenation over Ni Supported on Silica Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9478-9487	3.9	8
436	Scale-up of cluster beam deposition to the gram scale with the matrix assembly cluster source for heterogeneous catalysis (propylene combustion). <i>AIP Advances</i> , 2020 , 10, 025314	1.5	7
435	Probing the dynamics and structure of confined benzene in MCM-41 based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11485-11489	3.6	3
434	Recent advances in non-thermal plasma (NTP) catalysis towards C ₁ chemistry. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2010-2021	3.2	17
433	Kinetics of Water Gas Shift Reaction on Au/CeZrO ₄ : A Comparison Between Conventional Heating and Dielectric Barrier Discharge (DBD) Plasma Activation. <i>Topics in Catalysis</i> , 2020 , 63, 363-369	2.3	2
432	Systematic study of H ₂ production from catalytic photoreforming of cellulose over Pt catalysts supported on TiO ₂ . <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2084-2091	3.2	8
431	Mechanistic study of non-thermal plasma assisted CO ₂ hydrogenation over Ru supported on MgAl layered double hydroxide. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118752	21.8	46
430	Spatially-resolved investigation of the water inhibition of methane oxidation over palladium. <i>Catalysis Science and Technology</i> , 2020 , 10, 1858-1874	5.5	6
429	Synchrotron Radiation and Catalytic Science. <i>Synchrotron Radiation News</i> , 2020 , 33, 10-14	0.6	1
428	Hydrogenation of benzoic acid to benzyl alcohol over Pt/SnO ₂ . <i>Applied Catalysis A: General</i> , 2020 , 593, 117420	5.1	5
427	A design of a fixed bed plasma DRIFTS cell for studying the NTP-assisted heterogeneously catalysed reactions. <i>Catalysis Science and Technology</i> , 2020 , 10, 1458-1466	5.5	8
426	Effect of metal dispersion and support structure of Ni/silicalite-1 catalysts on non-thermal plasma (NTP) activated CO ₂ hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 119013	21.8	24
425	Nonthermal plasma (NTP) activated metal-organic frameworks (MOFs) catalyst for catalytic CO ₂ hydrogenation. <i>AIChE Journal</i> , 2020 , 66, e16853	3.6	16
424	CO Poisoning of Ru Catalysts in CO ₂ Hydrogenation under Thermal and Plasma Conditions: A Combined Kinetic and Diffuse Reflectance Infrared Fourier Transform Spectroscopy/Mass Spectrometry Study. <i>ACS Catalysis</i> , 2020 , 10, 12828-12840	13.1	15
423	Dehydrochlorination of PVC in multi-layered blisterpacks using ionic liquids. <i>Green Chemistry</i> , 2020 , 22, 5132-5142	10	7

422	Industrial Applications of Ionic Liquids. <i>Molecules</i> , 2020 , 25,	4.8	87
421	Structured Ni@NaA zeolite supported on silicon carbide foam catalysts for catalytic carbon dioxide methanation. <i>AIChE Journal</i> , 2020 , 66, e17007	3.6	6
420	Plasma-assisted catalytic dry reforming of methane (DRM) over metal-organic frameworks (MOFs)-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118195	21.8	63
419	Integration of Membrane Separation with Nonthermal Plasma Catalysis: A Proof-of-Concept for CO ₂ Capture and Utilization. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8202-8211	3.9	9
418	Aldol Condensation of 5-Hydroxymethylfurfural to Fuel Precursor over Novel Aluminum [email[protected]]. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16215-16224	8.3	22
417	Aqueous-phase tandem catalytic conversion of xylose to furfuryl alcohol over [Al]-SBA-15 molecular sieves. <i>Catalysis Science and Technology</i> , 2019 , 9, 5350-5358	5.5	7
416	Structural selectivity of supported Pd nanoparticles for catalytic NH ₃ oxidation resolved using combined operando spectroscopy. <i>Nature Catalysis</i> , 2019 , 2, 157-163	36.5	38
415	Novelty of iron-exchanged heteropolyacid encapsulated inside ZIF-8 as an active and superior catalyst in the esterification of furfuryl alcohol and acetic acid. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1790-1802	4.9	7
414	Self-Limiting Growth of Two-Dimensional Palladium between Graphene Oxide Layers. <i>Nano Letters</i> , 2019 , 19, 4678-4683	11.5	7
413	Kinetics of Hydrogenation of Acetic Acid over Supported Platinum Catalyst. <i>Energy & Fuels</i> , 2019 , 33, 5551-5560	4.1	6
412	Microwave-assisted catalyst-free hydrolysis of fibrous cellulose for deriving sugars and biochemicals. <i>Frontiers of Chemical Science and Engineering</i> , 2019 , 13, 718-726	4.5	10
411	Highly Selective and Solvent-Dependent Reduction of Nitrobenzene to N-Phenylhydroxylamine, Azoxybenzene, and Aniline Catalyzed by Phosphino-Modified Polymer Immobilized Ionic Liquid-Stabilized AuNPs. <i>ACS Catalysis</i> , 2019 , 9, 4777-4791	13.1	37
410	Catalytic Hydrogenation of Short Chain Carboxylic Acids Typical of Model Compound Found in Bio-Oils. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7998-8008	3.9	8
409	Reversible Reaction of CO ₂ with Superbasic Ionic Liquid [P66614][benzim] Studied with in Situ Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7134-7141	3.8	1
408	Combined spatially resolved operando spectroscopy: New insights into kinetic oscillations of CO oxidation on Pd/Al ₂ O ₃ . <i>Journal of Catalysis</i> , 2019 , 373, 201-208	7.3	8
407	Ionic liquid-based nanofluids (ionanofluids) for thermal applications: an experimental thermophysical characterization. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1309-1340	2.1	22
406	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids). <i>Australian Journal of Chemistry</i> , 2019 , 72, 21	1.2	19
405	SCILLs as selective catalysts for the oxidation of aromatic alcohols. <i>Catalysis Today</i> , 2019 , 333, 140-146	5.3	5

404	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , 2019 , 19, 6475-6481	11.5	26
403	Investigation of the oxygen storage capacity behaviour of three way catalysts using spatio-temporal analysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117918	21.8	4
402	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 15610-15616	3.6	5
401	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15464-15470	16.4	18
400	Coupling non-thermal plasma with Ni catalysts supported on BETA zeolite for catalytic CO2 methanation. <i>Catalysis Science and Technology</i> , 2019 , 9, 4135-4145	5.5	41
399	Investigating the Effect of NO on the Capture of CO2 Using Superbase Ionic Liquids for Flue Gas Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3567-3574	8.3	20
398	Defects-healing of SAPO-34 membrane by post-synthesis modification using organosilica for selective CO2 separation. <i>Journal of Membrane Science</i> , 2019 , 575, 80-88	9.6	20
397	Sustaining metal-organic frameworks for water-gas shift catalysis by non-thermal plasma. <i>Nature Catalysis</i> , 2019 , 2, 142-148	36.5	60
396	Confinement Effects on the Benzene Orientational Structure. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4565-4570	16.4	14
395	Confinement Effects on the Benzene Orientational Structure. <i>Angewandte Chemie</i> , 2018 , 130, 4655-4660	9.6	1
394	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. <i>Journal of Chemical Thermodynamics</i> , 2018 , 121, 97-111	2.9	37
393	Diffusion, Ion Pairing and Aggregation in 1-Ethyl-3-Methylimidazolium-Based Ionic Liquids Studied by H and F PFG NMR: Effect of Temperature, Anion and Glucose Dissolution. <i>ChemPhysChem</i> , 2018 , 19, 1081-1088	3.2	36
392	Effect of Mass Transport on the Electrochemical Oxidation of Alcohols Over Electrodeposited Film and Carbon-Supported Pt Electrodes. <i>Topics in Catalysis</i> , 2018 , 61, 240-253	2.3	24
391	Preface for Special Issue in Celebration of the 3rd UK Catalysis Conference (UKCC). <i>Topics in Catalysis</i> , 2018 , 61, 143-143	2.3	
390	Complex Oxides Based on Silver, Bismuth, and Tungsten: Syntheses, Characterization, and Photoelectrochemical Behavior. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13473-13480	3.8	8
389	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids). <i>Journal of Molecular Liquids</i> , 2018 , 253, 326-339	6	37
388	Catalytic depolymerisation of suberin rich biomass with precious metal catalysts. <i>Green Chemistry</i> , 2018 , 20, 2702-2705	10	12
387	Effects of heat treatment atmosphere on the structure and activity of PtSn nanoparticle electrocatalysts: a characterisation case study. <i>Faraday Discussions</i> , 2018 , 208, 555-573	3.6	12

- 386 Impact of SCILL catalysts for the S-S coupling of thiols to disulfides. *Faraday Discussions*, **2018**, 206, 535-547 4
- 385 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 2.9 30
- 384 Unraveling the H Promotional Effect on Palladium-Catalyzed CO Oxidation Using a Combination of Temporally and Spatially Resolved Investigations. *ACS Catalysis*, **2018**, 8, 8255-8262 13.1 9
- 383 Understanding the CO Oxidation on Pt Nanoparticles Supported on MOFs by XPS. *ChemCatChem*, **2018**, 10, 4238-4242 5.2 26
- 382 An integrated total neutron scattering - NMR approach for the study of heterogeneous catalysis. *Chemical Communications*, **2018**, 54, 10191-10194 5.8 6
- 381 Non-thermal-plasma-activated de-NO catalysis. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376, 3-9 3 9
- 380 Understanding the Competitive Gas Absorption of CO₂ and SO₂ in Superbase Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17033-17042 3.9 16
- 379 Acyclic and Cyclic Alkyl and Ether-Functionalised Sulfonium Ionic Liquids Based on the [TFSI] and [FSI] Anions as Potential Electrolytes for Electrochemical Applications. *ChemPhysChem*, **2018**, 19, 3226 3.2 8
- 378 Electrolytes for LiO₂ Batteries **2018**, 65-94
- 377 Research Progress in the Selective Catalytic Reduction of NO_x by H₂ in the Presence of O₂. *Catalysis Surveys From Asia*, **2018**, 22, 146-155 2.8 12
- 376 Insights into the mechanism of electrochemical ozone production via water splitting on the Ni and Sb doped SnO catalyst. *Physical Chemistry Chemical Physics*, **2017**, 19, 3800-3806 3.6 11
- 375 Liquid-Liquid Equilibria of Ionic Liquids-Water-Acetic Acid Mixtures. *Journal of Chemical & Engineering Data*, **2017**, 62, 653-664 2.8 20
- 374 Selective hydrogenation of acetylene over Cu(211), Ag(211) and Au(211): Horiuti-Polanyi mechanism vs. non-Horiuti-Polanyi mechanism. *Catalysis Science and Technology*, **2017**, 7, 1508-1514 5.5 34
- 373 Non-Thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. *Angewandte Chemie*, **2017**, 129, 5671-5675 3.6 9
- 372 Non-Thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 5579-5583 16.4 57
- 371 Probing the Role of a Non-Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. *Angewandte Chemie - International Edition*, **2017**, 56, 9351-9355 16.4 40
- 370 Thermophysical and Electrochemical Properties of Ethernal Functionalised Cyclic Alkylammonium-based Ionic Liquids as Potential Electrolytes for Electrochemical Applications. *ChemPhysChem*, **2017**, 18, 2040-2057 3.2 24
- 369 Heterocyclic bismuth(III) compounds with transannular N-Bi interactions as catalysts for the oxidation of thiophenol to diphenyldisulfide. *Catalysis Science and Technology*, **2017**, 7, 5343-5353 5.5 16

368	Using chiral ionic liquid additives to enhance asymmetric induction in a Diels-Alder reaction. <i>Dalton Transactions</i> , 2017 , 46, 1704-1713	4.3	7
367	Physical/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. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 376-390	2.8	29
366	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. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 426-436	3.4	32
365	Combined In Situ XAFS/DRIFTS Studies of the Evolution of Nanoparticle Structures from Molecular Precursors. <i>Chemistry of Materials</i> , 2017 , 29, 7515-7523	9.6	20
364	The Structure of Ethylbenzene, Styrene and Phenylacetylene Determined by Total Neutron Scattering. <i>ChemPhysChem</i> , 2017 , 18, 2541-2548	3.2	9
363	Probing the Role of a Non-Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. <i>Angewandte Chemie</i> , 2017 , 129, 9479-9483	3.6	3
362	Physical and Electrochemical Investigations into Blended Electrolytes Containing a Glyme Solvent and Two Bis{(trifluoromethyl)sulfonyl}imide-Based Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5124-H5134	3.9	7
361	Modern Developments in Catalysis 2017 ,		10
360	Factors affecting bubble size in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14306-14318	3.6	8
359	H ₂ production by the photocatalytic reforming of cellulose and raw biomass using Ni, Pd, Pt and Au on titania. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160054	2.4	58
358	Combined EXAFS, XRD, DRIFTS, and DFT Study of Nano Copper-Based Catalysts for CO ₂ Hydrogenation. <i>ACS Catalysis</i> , 2016 , 6, 5823-5833	13.1	35
357	An ether-functionalised cyclic sulfonium based ionic liquid as an electrolyte for electrochemical double layer capacitors. <i>Journal of Power Sources</i> , 2016 , 326, 549-559	8.9	22
356	The use of binary mixtures of 1-butyl-1-methylpyrrolidinium bis{(trifluoromethyl)sulfonyl}imide and aliphatic nitrile solvents as electrolyte for supercapacitors. <i>Electrochimica Acta</i> , 2016 , 220, 146-155	6.7	37
355	Mercury capture on a supported chlorocuprate(ii) ionic liquid adsorbent studied using operando synchrotron X-ray absorption spectroscopy. <i>Dalton Transactions</i> , 2016 , 45, 18946-18953	4.3	11
354	Solubility study of tobramycin in room temperature ionic liquids: an experimental and computational based study. <i>RSC Advances</i> , 2016 , 6, 107214-107218	3.7	1
353	Continuous flow gas phase photoreforming of methanol at elevated reaction temperatures sensitised by Pt/TiO ₂ . <i>Reaction Chemistry and Engineering</i> , 2016 , 1, 649-657	4.9	16
352	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. <i>ACS Catalysis</i> , 2016 , 6, 1356-1381	13.1	48
351	Catalysis making the world a better place: satellite meeting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	5

350	Effect of the Presence of MEA on the CO ₂ Capture Ability of Superbase Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1092-1100	2.8	22
349	Selective hydrogenation of halogenated arenes using porous manganese oxide (OMS-2) and platinum supported OMS-2 catalysts. <i>Faraday Discussions</i> , 2016 , 188, 451-466	3.6	14
348	Importance of surface carbide formation on the activity and selectivity of Pd surfaces in the selective hydrogenation of acetylene. <i>Surface Science</i> , 2016 , 646, 45-49	1.8	40
347	Assessing the effect of reducing agents on the selective catalytic reduction of NO _x over Ag/Al ₂ O ₃ catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 1661-1666	5.5	22
346	Neutron Scattering of Aromatic and Aliphatic Liquids. <i>ChemPhysChem</i> , 2016 , 17, 2043-55	3.2	25
345	Determination of toluene hydrogenation kinetics with neutron diffraction. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17237-43	3.6	4
344	A novel methodology for assessing the environmental sustainability of ionic liquids used for CO capture. <i>Faraday Discussions</i> , 2016 , 192, 283-301	3.6	29
343	Effect of cation structure on the oxygen solubility and diffusivity in a range of bis{(trifluoromethyl)sulfonyl}imide anion based ionic liquids for lithium-air battery electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11251-62	3.6	33
342	Techno-Economic Feasibility of Selective CO ₂ Capture Processes from Biogas Streams Using Ionic Liquids as Physical Absorbents. <i>Energy & Fuels</i> , 2016 , 30, 5052-5064	4.1	47
341	Biobutanol as Fuel for Direct Alcohol Fuel Cells-Investigation of Sn-Modified Pt Catalyst for Butanol Electro-oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12859-70	9.5	33
340	Synthesis and Thermophysical Properties of Ether-Functionalized Sulfonium Ionic Liquids as Potential Electrolytes for Electrochemical Applications. <i>ChemPhysChem</i> , 2016 , 17, 3992-4002	3.2	21
339	Direct oxidation of amines to nitriles in the presence of ruthenium-terpyridyl complex immobilized on ILs/SILP. <i>Catalysis Science and Technology</i> , 2015 , 5, 2696-2704	5.5	18
338	CO ₂ capture and electrochemical conversion using superbasic [P66614][124Triz]. <i>Faraday Discussions</i> , 2015 , 183, 389-400	3.6	17
337	Development of a PtSn bimetallic catalyst for direct fuel cells using bio-butanol fuel. <i>Chemical Communications</i> , 2015 , 51, 13412-5	5.8	7
336	CO ₂ Capture in Wet and Dry Superbase Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2015 , 44, 511-527	1.8	49
335	Activity Enhancement of Tetrahedral Pd Nanocrystals by Bi Decoration towards Ethanol Electrooxidation in Alkaline Media. <i>Electrochimica Acta</i> , 2015 , 162, 290-299	6.7	12
334	Application of Asymmetric Marcus-Hush Theory to Voltammetry in Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7360-7370	3.8	10
333	Metal Redispersion Strategies for Recycling of Supported Metal Catalysts: A Perspective. <i>ACS Catalysis</i> , 2015 , 5, 3430-3445	13.1	108

332	Structure and dynamics of aqueous 2-propanol: a THz-TDS, NMR and neutron diffraction study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30481-91	3.6	24
331	The addition of CO ₂ to four superbases ionic liquids: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28674-82	3.6	16
330	Preliminary Investigation on the Electrochemical Activity of Butanol Isomers as Potential Fuel for Direct Alcohol Fuel Cell. <i>ECS Transactions</i> , 2015 , 69, 809-816	1	3
329	A kinetic analysis methodology to elucidate the roles of metal, support and solvent for the hydrogenation of 4-phenyl-2-butanone over Pt/TiO ₂ . <i>Journal of Catalysis</i> , 2015 , 330, 362-373	7.3	11
328	Effect of solvent on the hydrogenation of 4-phenyl-2-butanone over Pt based catalysts. <i>Journal of Catalysis</i> , 2015 , 330, 344-353	7.3	45
327	Development of a diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) cell for the in situ analysis of co-electrolysis in a solid oxide cell. <i>Faraday Discussions</i> , 2015 , 182, 97-111	3.6	12
326	Determining adsorbate configuration on alumina surfaces with (13)C nuclear magnetic resonance relaxation time analysis. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20830-9	3.6	4
325	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. <i>Green Chemistry</i> , 2015 , 17, 1559-1571	10	50
324	The effects of stepped sites and ruthenium adatom decoration on methanol dehydrogenation over platinum-based catalyst surfaces. <i>Catalysis Today</i> , 2015 , 242, 230-239	5.3	10
323	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. <i>Angewandte Chemie</i> , 2015 , 127, 14370-14374	3.6	34
322	Investigating the Structure of Ionic Liquids and Ionic Liquid 2015 , 55-82		
321	Arene cis-Diol Dehydrogenase-Catalysed Regio- and Stereoselective Oxidation of Arene-, Cycloalkane- and Cycloalkene-cis-diols to Yield Catechols and Chiral β -Ketols. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1881-1894	5.6	7
320	A Combined Raman Spectroscopic and Thermogravimetric Analysis Study on Oxidation of Coal with Different Ranks. <i>Journal of Analytical Methods in Chemistry</i> , 2015 , 2015, 306874	2	9
319	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO ₃ /TiO ₂ catalyst. <i>Journal of Catalysis</i> , 2015 , 328, 197-207	7.3	48
318	Re-dispersion of gold supported on a mixed oxide support 2015 , 1, 120-124		3
317	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14164-8	16.4	110
316	Probing a Non-Thermal Plasma Activated Heterogeneously Catalyzed Reaction Using in Situ DRIFTS-MS. <i>ACS Catalysis</i> , 2015 , 5, 956-964	13.1	58
315	Naphthenic acid extraction and speciation from Doba crude oil using carbonate-based ionic liquids. <i>Fuel</i> , 2015 , 146, 60-68	7.1	29

314	One-Electron Reduction of 2-Nitrotoluene, Nitrocyclopentane, and 1-Nitrobutane in Room Temperature Ionic Liquids: A Comparative Study of Butler-Volmer and Symmetric Marcus-Hush Theories Using Microdisk Electrodes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3634-3647	3.8	6
313	Mechanochemical preparation of Ag catalysts for the n-octane-SCR de-NO _x reaction: Structural and reactivity effects. <i>Catalysis Today</i> , 2015 , 246, 198-206	5.3	9
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29	Determination of ammonia based on the electro-oxidation of hydroquinone in dimethylformamide or in the room temperature ionic liquid, 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Talanta</i> , 2004 , 62, 904-11	6.2	56
28	Liquid and Solid-State Structures of 1,3-Dimethylimidazolium Salts. <i>ACS Symposium Series</i> , 2003 , 151-161	10.4	2
27	Heterogeneously catalysed selective hydrogenation reactions in ionic liquids. <i>Green Chemistry</i> , 2003 , 5, 448	10	73

26	Low-temperature oxidation reactions of ethane over a Pt/Al ₂ O ₃ catalyst. <i>Journal of Catalysis</i> , 2003 , 219, 206-213	7.3	20
25	Oxidation of N,N,N',N'-tetraalkyl-para-phenylenediamines in a series of room temperature ionic liquids incorporating the bis(trifluoromethylsulfonyl)imide anion. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 556, 179-188	4.1	115
24	Polymer-supported phosphoramidites: highly efficient and recyclable catalysts for asymmetric hydrogenation of dimethylitaconate and dehydroamino acids and esters. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 1517-1527		44
23	Structure of molten 1,3-dimethylimidazolium chloride using neutron diffraction. <i>Journal of Chemical Physics</i> , 2003 , 118, 273-278	3.9	431
22	Liquid structure of 1,3-dimethylimidazolium salts. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S159-S166	1.6	101
21	Voltammetry of Oxygen in the Room-Temperature Ionic Liquids 1-Ethyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)imide and Hexyltriethylammonium Bis((trifluoromethyl)sulfonyl)imide: One-Electron Reduction To Form Superoxide. Steady-State and Transient Voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 556, 179-188	2.8	229
20	Ruthenium Complexes of the 1,4-Bis(diphenylphosphino)-1,3-butadiene-Bridged Diphosphine 1,2,3,4-Me ₄ -NUPHOS: Solvent-Dependent Interconversion of Four- and Six-Electron Donor Coordination and Transfer Hydrogenation Activity. <i>Organometallics</i> , 2003 , 22, 1452-1462	3.8	20
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17	Ionic Liquids for the Nuclear Industry: A Radiochemical, Structural, and Electrochemical Investigation. <i>ACS Symposium Series</i> , 2002 , 162-177	0.4	20
16	The effect of co-precipitation on cadmium(II) adsorption on hydrous aluminium(III) hydroxide in the presence of a range of chelates. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3828-3834	3.6	4
15	In situ XAFS investigation of palladium species present during the Heck reaction in room temperature ionic liquids. <i>Green Chemistry</i> , 2002 , 4, 139-142	10	77
14	Small-Angle X-ray Scattering Studies of Liquid Crystalline 1-Alkyl-3-methylimidazolium Salts. <i>Chemistry of Materials</i> , 2002 , 14, 629-635	9.6	385
13	Alternating copolymerisation of styrene and carbon monoxide in ionic liquids. <i>Green Chemistry</i> , 2002 , 4, 143-146	10	71
12	Use of a batch rotating photocatalytic contactor for the degradation of organic pollutants in wastewater. <i>Applied Catalysis B: Environmental</i> , 2001 , 30, 49-60	21.8	40
11	Molecular layering and local order in thin films of 1-alkyl-3-methylimidazolium ionic liquids using X-ray reflectivity. <i>Molecular Physics</i> , 2001 , 99, 795-800	1.7	111
10	A highly efficient synthetic procedure for deuterating imidazoles and imidazolium salts. <i>Chemical Communications</i> , 2001 , 367-368	5.8	58
9	Crystal and liquid crystalline polymorphism in 1-alkyl-3-methylimidazolium tetrachloropalladate(II) salts. <i>Journal of Materials Chemistry</i> , 2001 , 11, 346-350		75

8	Gas-phase photocatalytic oxidation of dichlorobutenes. <i>Environmental Science & Technology</i> , 2001 , 35, 2823-7	10.3	10
7	The enhanced adsorption of cadmium on hydrous aluminium(III) hydroxide by ethylenediaminetetraacetate. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 1273-1279	3.6	10
6	A Method for Studying the Structure of Low-Temperature Ionic Liquids by XAFS. <i>Analytical Chemistry</i> , 1999 , 71, 4572-4574	7.8	33
5	Ensemble Effects in the Coupling of Acetylene to Benzene on a Bimetallic Surface: A Study with Pd{111}/Au. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2189-2194		118
4	Plasma Polymerization of 2-Iodothiophene. <i>Chemistry of Materials</i> , 1996 , 8, 916-921	9.6	20
3	Short-Chain Alkane Activation. <i>ACS Symposium Series</i> , 1996 , 394-408	0.4	1
2	A Simple and Ligand-Free Synthesis of Light and Durable Metal-TiO ₂ Polymer Films with Enhanced Photocatalytic Properties. <i>Advanced Materials Interfaces</i> , 2101241	4.6	0
1	Dry reforming of methane on bimetallic PtNi@CeO ₂ catalyst: a in situ DRIFTS-MS mechanistic study. <i>Catalysis Science and Technology</i> ,	5.5	5