

Christopher Hardacre

List of Publications by Year in descending order

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papers

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488
all docs

488
docs citations

488
times ranked

20048
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalysis in Ionic Liquids. <i>Chemical Reviews</i> , 2007, 107, 2615-2665.	23.0	2,179
2	Effect of Water on the Electrochemical Window and Potential Limits of Room-Temperature Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2884-2891.	1.0	486
3	Structure of molten 1,3-dimethylimidazolium chloride using neutron diffraction. <i>Journal of Chemical Physics</i> , 2003, 118, 273-278.	1.2	456
4	Small-Angle X-ray Scattering Studies of Liquid Crystalline 1-Alkyl-3-methylimidazolium Salts. <i>Chemistry of Materials</i> , 2002, 14, 629-635.	3.2	409
5	Use of Room Temperature Ionic Liquids in Gas Sensor Design. <i>Analytical Chemistry</i> , 2004, 76, 4583-4588.	3.2	376
6	Liquid clathrate formation in ionic liquid aromatic mixtures. Electronic supplementary information (ESI) available: crystallographic information, CCDC 200588 and 200590. See http://www.rsc.org/suppdata/cc/b2/b212726a/ for crystallographic files in CIF or other electronic format. <i>Chemical Communications</i> , 2003, , 476-477.	2.2	370
7	Structure and Solvation in Ionic Liquids. <i>Accounts of Chemical Research</i> , 2007, 40, 1146-1155.	7.6	314
8	Industrial Applications of Ionic Liquids. <i>Molecules</i> , 2020, 25, 5207.	1.7	274
9	Small angle neutron scattering from 1-alkyl-3-methylimidazolium hexafluorophosphate ionic liquids ([C _n mim][PF ₆], n=4, 6, and 8). <i>Journal of Chemical Physics</i> , 2010, 133, 074510.	1.2	273
10	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 Behavior in the Same Cyclic Voltammogram Resulting from Widely Different Diffusion Coefficients of Oxygen and Superoxide. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8872-8878.	1.1	248
11	Quantification of Halide in Ionic Liquids Using Ion Chromatography. <i>Analytical Chemistry</i> , 2004, 76, 2118-2123.	3.2	242
12	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 716-726.	1.0	233
13	Voltammetric Characterization of the Ferrocene Ferrocenium and Cobaltocenium Cobaltocene Redox Couples in RTILs. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2729-2735.	1.5	228
14	Thermal Properties of Ionic Liquids and Ionanofluids of Imidazolium and Pyrrolidinium Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 653-661.	1.0	217
15	Electroreduction of Oxygen in a Series of Room Temperature Ionic Liquids Composed of Group 15-Centered Cations and Anions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7878-7886.	1.2	216
16	Liquid Structure of the Ionic Liquid 1,3-Dimethylimidazolium Bis((trifluoromethyl)sulfonyl)amide. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12055-12061.	1.2	215
17	Influence of surface structures, subsurface carbon and hydrogen, and surface alloying on the activity and selectivity of acetylene hydrogenation on Pd surfaces: A density functional theory study. <i>Journal of Catalysis</i> , 2013, 305, 264-276.	3.1	214
18	Glucose Solvation by the Ionic Liquid 1,3-Dimethylimidazolium Chloride: A Simulation Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13765-13774.	1.2	205

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19	DFT and In Situ EXAFS Investigation of Gold/Ceria-Zirconia Low-Temperature Water Gas Shift Catalysts: Identification of the Nature of the Active Form of Gold. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22553-22559.	1.2	197
20	Application of Static Charge Transfer within an Ionic-Liquid Force Field and Its Effect on Structure and Dynamics. <i>ChemPhysChem</i> , 2008, 9, 1548-1558.	1.0	190
21	Microwave Irradiation for the Facile Synthesis of Transition-Metal Nanoparticles (NPs) in Ionic Liquids (ILs) from Metal-Carbonyl Precursors and Ru, Rh, and Ir NP/IL Dispersions as Biphasic Liquid-Liquid Hydrogenation Nanocatalysts for Cyclohexene. <i>Chemistry - A European Journal</i> , 2010, 16, 3849-3858.	1.7	184
22	Highly selective and efficient hydrogenation of carboxylic acids to alcohols using titania supported Pt catalysts. <i>Chemical Communications</i> , 2010, 46, 6279.	2.2	184
23	Thermodynamics, Structure, and Dynamics in Room Temperature Ionic Liquids: The Case of 1-Butyl-3-methyl Imidazolium Hexafluorophosphate ([bmim][PF6]). <i>Journal of Physical Chemistry B</i> , 2006, 110, 21357-21364.	1.2	180
24	Application of heterogeneous catalysts prepared by mechanochemical synthesis. <i>Chemical Society Reviews</i> , 2013, 42, 7701.	18.7	177
25	Quantitative analysis of the reactivity of formate species seen by DRIFTS over a Au/Ce(La)O ₂ water-gas shift catalyst: First unambiguous evidence of the minority role of formates as reaction intermediates. <i>Journal of Catalysis</i> , 2007, 247, 277-287.	3.1	174
26	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2148-2153.	1.0	173
27	Thermal Conductivities of Ionic Liquids over the Temperature Range from 293 K to 353 K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1819-1823.	1.0	167
28	Structure of Ionic Liquid-Benzene Mixtures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1593-1598.	1.2	165
29	Origin of the Increase of Activity and Selectivity of Nickel Doped by Au, Ag, and Cu for Acetylene Hydrogenation. <i>ACS Catalysis</i> , 2012, 2, 1027-1032.	5.5	162
30	Metal Redispersion Strategies for Recycling of Supported Metal Catalysts: A Perspective. <i>ACS Catalysis</i> , 2015, 5, 3430-3445.	5.5	154
31	Extended Electrochemical Windows Made Accessible by Room Temperature Ionic Liquid/Organic Solvent Electrolyte Systems. <i>ChemPhysChem</i> , 2006, 7, 176-180.	1.0	153
32	Electrochemistry of Sulfur and Polysulfides in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13873-13879.	1.2	147
33	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2133-2143.	1.0	139
34	A Comparative Electrochemical Study of Diffusion in Room Temperature Ionic Liquid Solvents versus Acetonitrile. <i>ChemPhysChem</i> , 2005, 6, 526-533.	1.0	137
35	Plasma-assisted catalytic dry reforming of methane (DRM) over metal-organic frameworks (MOFs)-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118195.	10.8	135
36	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14164-14168.	7.2	134

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37	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.	2.9	133
38	Structural Studies of Crystalline 1-Alkyl-3-Methylimidazolium Chloride Salts. <i>Chemistry of Materials</i> , 2004, 16, 43-48.	3.2	131
39	Origin of Low CO ₂ Selectivity on Platinum in the Direct Ethanol Fuel Cell. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1572-1575.	7.2	130
40	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.	1.9	125
41	Sustaining metal-organic frameworks for water-gas shift catalysis by non-thermal plasma. <i>Nature Catalysis</i> , 2019, 2, 142-148.	16.1	123
42	The Reduction of Oxygen in Various Room Temperature Ionic Liquids in the Temperature Range 293~318 K: Exploring the Applicability of the Stokes-Einstein Relationship in Room Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8953-8959.	1.2	121
43	Neutron diffraction, NMR and molecular dynamics study of glucose dissolved in the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Chemical Science</i> , 2011, 2, 1594.	3.7	121
44	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.	0.8	119
45	Thermophysical Properties of Amino Acid-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1505-1515.	1.0	118
46	Structure and Dynamics of 1-Ethyl-3-methylimidazolium Acetate via Molecular Dynamics and Neutron Diffraction. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7760-7768.	1.2	117
47	Electroanalytical Determination of Trace Chloride in Room-Temperature Ionic Liquids. <i>Analytical Chemistry</i> , 2004, 76, 1998-2003.	3.2	115
48	Structural Investigation of the Promotional Effect of Hydrogen during the Selective Catalytic Reduction of NO _x with Hydrocarbons over Ag/Al ₂ O ₃ Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4805-4807.	1.2	115
49	A Molecular Dynamics Study of Glucose Solvation in the Ionic Liquid 1,3-Dimethylimidazolium Chloride. <i>ChemPhysChem</i> , 2006, 7, 2279-2281.	1.0	115
50	Liquid structure of 1, 3-dimethylimidazolium salts. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S159-S166.	0.7	111
51	Electrochemical reduction of nitrobenzene and 4-nitrophenol in the room temperature ionic liquid [C ₄ dmm][N(Tf) ₂]. <i>Journal of Electroanalytical Chemistry</i> , 2006, 596, 131-140.	1.9	111
52	Quantitative DRIFTS investigation of possible reaction mechanisms for the water-gas shift reaction on high-activity Pt- and Au-based catalysts. <i>Journal of Catalysis</i> , 2007, 252, 18-22.	3.1	108
53	The effect of various treatment conditions on natural zeolites: Ion exchange, acidic, thermal and steam treatments. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 130-140.	5.0	107
54	Transesterification of vegetable oils on basic large mesoporous alumina supported alkaline fluorides: Evidences of the nature of the active site and catalytic performances. <i>Journal of Catalysis</i> , 2009, 263, 56-66.	3.1	106

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55	Facile in situ synthesis of nanofluids based on ionic liquids and copper oxide clusters and nanoparticles. Dalton Transactions, 2012, 41, 219-227.	1.6	106
56	Catalytic hydrogenation of tertiary amides at low temperatures and pressures using bimetallic Pt/Re-based catalysts. Journal of Catalysis, 2011, 283, 89-97.	3.1	104
57	A mechanistic study of the electro-oxidation of bromide in acetonitrile and the room temperature ionic liquid, 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide at platinum electrodes. Journal of Electroanalytical Chemistry, 2005, 575, 311-320.	1.9	103
58	Electrochemical studies of gold and chloride in ionic liquids. New Journal of Chemistry, 2006, 30, 1576-1583.	1.4	103
59	An Electrochemical Study of the Oxidation of Hydrogen at Platinum Electrodes in Several Room Temperature Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 5000-5007.	1.2	102
60	Mechanistic study of non-thermal plasma assisted CO ₂ hydrogenation over Ru supported on MgAl layered double hydroxide. Applied Catalysis B: Environmental, 2020, 268, 118752.	10.8	101
61	Evaluation of Gas Solubility Prediction in Ionic Liquids using COSMOthermX. Journal of Chemical & Engineering Data, 2009, 54, 2005-2022.	1.0	98
62	Deactivation Mechanism of a Au/CeZrO ₄ Catalyst During a Low-Temperature Water Gas Shift Reaction. Journal of Physical Chemistry C, 2007, 111, 16927-16933.	1.5	92
63	Investigating the Mechanism and Electrode Kinetics of the Oxygen Superoxide (O ₂ O ₂ ^{•-}) Couple in Various Room-Temperature Ionic Liquids at Gold and Platinum Electrodes in the Temperature Range 298~318 K. Journal of Physical Chemistry C, 2009, 113, 17811-17823.	1.5	91
64	Double potential step chronoamperometry at microdisk electrodes: simulating the case of unequal diffusion coefficients. Journal of Electroanalytical Chemistry, 2004, 571, 211-221.	1.9	88
65	Liquid densities, heat capacities, refractive index and excess quantities for {protic ionic liquids+water} binary system. Journal of Chemical Thermodynamics, 2009, 41, 799-808.	1.0	88
66	Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. Journal of Chemical & Engineering Data, 2009, 54, 2049-2053.	1.0	88
67	Relaxation Processes in Room Temperature Ionic Liquids: The Case of 1-Butyl-3-Methyl Imidazolium Hexafluorophosphate. Journal of Physical Chemistry B, 2005, 109, 22061-22066.	1.2	86
68	Unusual Voltammetry of the Reduction of O ₂ in [C ₄ dmim][N(Tf) ₂] Reveals a Strong Interaction of O ₂ ^{•-} with the [C ₄ dmim] ⁺ Cation. Journal of Physical Chemistry C, 2008, 112, 13709-13715.	1.5	85
69	New insight into mechanisms in water-gas-shift reaction on Au/CeO ₂ (111): A density functional theory and kinetic study. Faraday Discussions, 2011, 152, 121.	1.6	85
70	Alternating copolymerisation of styrene and carbon monoxide in ionic liquids. Green Chemistry, 2002, 4, 143-146.	4.6	84
71	Preparation of nanoparticulate metal catalysts in porous supports using an ionic liquid route; hydrogenation and C-C coupling. Inorganic Chemistry Communication, 2004, 7, 73-76.	1.8	84
72	An Electrochemical and ESR Spectroscopic Study on the Molecular Dynamics of TEMPO in Room Temperature Ionic Liquid Solvents. ChemPhysChem, 2005, 6, 1035-1039.	1.0	84

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73	Crystal and liquid crystalline polymorphism in 1-alkyl-3-methylimidazolium tetrachloropalladate(ii) salts. <i>Journal of Materials Chemistry</i> , 2001, 11, 346-350.	6.7	83
74	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.	4.6	82
75	The electrochemical oxidation of hydrogen at activated platinum electrodes in room temperature ionic liquids as solvents. <i>Journal of Electroanalytical Chemistry</i> , 2008, 618, 53-60.	1.9	82
76	Kinetic Analysis of the Reaction between Electrogenerated Superoxide and Carbon Dioxide in the Room Temperature Ionic Liquids 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide and Hexyltriethylammonium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3947-3954.	1.2	81
77	Understanding the Optimal Adsorption Energies for Catalyst Screening in Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2014, 4, 182-186.	5.5	81
78	On the complexity of the water-gas shift reaction mechanism over a Pt/CeO ₂ catalyst: Effect of the temperature on the reactivity of formate surface species studied by operando DRIFT during isotopic transient at chemical steady-state. <i>Catalysis Today</i> , 2007, 126, 143-147.	2.2	80
79	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.	1.0	80
80	Electrochemical Rate Constants in Room Temperature Ionic Liquids: The Oxidation of a Series of Ferrocene Derivatives. <i>ChemPhysChem</i> , 2006, 7, 1041-1045.	1.0	78
81	Non-Thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5579-5583.	7.2	77
82	Highly Selective and Solvent-Dependent Reduction of Nitrobenzene to <i>N</i> -Phenylhydroxylamine, Azoxybenzene, and Aniline Catalyzed by Phosphino-Modified Polymer Immobilized Ionic Liquid-Stabilized AuNPs. <i>ACS Catalysis</i> , 2019, 9, 4777-4791.	5.5	77
83	Temperature Dependence of the Primary Relaxation in 1-Hexyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8469-8474.	1.2	76
84	Tetrahexahedral Pt Nanocrystal Catalysts Decorated with Ru Adatoms and Their Enhanced Activity in Methanol Electrooxidation. <i>ACS Catalysis</i> , 2012, 2, 708-715.	5.5	76
85	Heterogeneously catalysed selective hydrogenation reactions in ionic liquids. <i>Green Chemistry</i> , 2003, 5, 448.	4.6	75
86	Increased Dispersion of Supported Gold during Methanol Carbonylation Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 6973-6975.	6.6	75
87	Interaction of water, hydrogen and their mixtures with SnO ₂ based materials: the role of surface hydroxyl groups in detection mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2639.	1.3	75
88	Shielding Protection by Mesoporous Catalysts for Improving Plasma-Catalytic Ambient Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2022, 144, 12020-12031.	6.6	75
89	APPLICATION OF EXAFS TO MOLTEN SALTS AND IONIC LIQUID TECHNOLOGY. <i>Annual Review of Materials Research</i> , 2005, 35, 29-49.	4.3	74
90	Solubility of carbon dioxide and ethane in three ionic liquids based on the bis{(trifluoromethyl)sulfonyl}imide anion. <i>Fluid Phase Equilibria</i> , 2007, 257, 27-34.	1.4	74

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91	Probing a Non-Thermal Plasma Activated Heterogeneously Catalyzed Reaction Using in Situ DRIFTS-MS. ACS Catalysis, 2015, 5, 956-964.	5.5	74
92	Structural selectivity of supported Pd nanoparticles for catalytic NH ₃ oxidation resolved using combined operando spectroscopy. Nature Catalysis, 2019, 2, 157-163.	16.1	74
93	Redispersion of Gold Supported on Oxides. ACS Catalysis, 2012, 2, 552-560.	5.5	73
94	Pinning down the solid-state polymorphism of the ionic liquid [bmim][PF ₆]. Chemical Science, 2013, 4, 1270.	3.7	73
95	Role of Water and Adsorbed Hydroxyls on Ethanol Electrochemistry on Pd: New Mechanism, Active Centers, and Energetics for Direct Ethanol Fuel Cell Running in Alkaline Medium. Journal of Physical Chemistry C, 2014, 118, 5762-5772.	1.5	73
96	Marked enantioselectivity enhancements for Diels-Alder reactions in ionic liquids catalysed by platinum diphosphine complexes. Green Chemistry, 2004, 6, 63-67.	4.6	72
97	Electrochemical Oxidation of Nitrite and the Oxidation and Reduction of NO ₂ in the Room Temperature Ionic Liquid [C ₂ mim][NTf ₂]. Journal of Physical Chemistry B, 2007, 111, 7778-7785.	1.2	72
98	Rheological and heat transfer behaviour of the ionic liquid, [C ₄ mim][NTf ₂]. International Journal of Heat and Fluid Flow, 2008, 29, 149-155.	1.1	72
99	Ion Association in [bmim][PF ₆]/Naphthalene Mixtures: An Experimental and Computational Study. Journal of the American Chemical Society, 2008, 130, 7032-7041.	6.6	72
100	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO _x /TiO ₂ catalyst. Journal of Catalysis, 2015, 328, 197-207.	3.1	72
101	Techno-Economic Feasibility of Selective CO ₂ Capture Processes from Biogas Streams Using Ionic Liquids as Physical Absorbents. Energy & Fuels, 2016, 30, 5052-5064.	2.5	72
102	A Structural and Electrochemical Investigation of 1-Alkyl-3-methylimidazolium Salts of the Nitratodioxouranate(VI) Anions [UO ₂ (NO ₃) ₂ ·(1/4-C ₂ O ₄) ₂]-, [UO ₂ (NO ₃) ₃]-, and [UO ₂ (NO ₃) ₄] ²⁻ . Inorganic Chemistry, 2004, 43, 2503-2514.	1.9	71
103	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. ACS Catalysis, 2016, 6, 1356-1381.	5.5	70
104	Mechanistic Study of 1,3-Butadiene Formation in Acetylene Hydrogenation over the Pd-Based Catalysts Using Density Functional Calculations. Journal of Physical Chemistry C, 2014, 118, 1560-1567.	1.5	68
105	Coupling non-thermal plasma with Ni catalysts supported on BETA zeolite for catalytic CO ₂ methanation. Catalysis Science and Technology, 2019, 9, 4135-4145.	2.1	68
106	Ionic liquids as media for unique phosphorus chemistry. Chemical Communications, 2006, , 72-74.	2.2	67
107	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. Journal of the American Chemical Society, 2021, 143, 10977-10985.	6.6	66
108	Supported and liquid phase task specific ionic liquids for base catalysed Knoevenagel reactions. Journal of Molecular Catalysis A, 2007, 269, 64-71.	4.8	65

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109	A highly efficient synthetic procedure for deuterating imidazoles and imidazolium salts. <i>Chemical Communications</i> , 2001, , 367-368.	2.2	64
110	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, 904-911.	2.9	64
111	Functionalised ionic liquids: synthesis of ionic liquids with tethered basic groups and their use in Heck and Knoevenagel reactions. <i>New Journal of Chemistry</i> , 2010, 34, 723.	1.4	64
112	Influence of Methyl Halide Treatment on Gold Nanoparticles Supported on Activated Carbon. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8912-8916.	7.2	64
113	Voltammetric Studies of Gold, Protons, and [HCl ₂] ⁻ in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8496-8503.	1.5	63
114	Liquid-liquid miscibility and volumetric properties of aqueous solutions of ionic liquids as a function of temperature. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1206-1214.	1.0	63
115	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.	4.6	63
116	Electrochemical Kinetics of Ag Ag ⁺ and TMPD TMPD ^{•+} in the Room-Temperature Ionic Liquid [C ₄ mpyr][NTf ₂]; toward Optimizing Reference Electrodes for Voltammetry in RTILs. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13957-13966.	1.5	62
117	An investigation of the thermal stability and sulphur tolerance of Ag ⁺ /Al ₂ O ₃ catalysts for the SCR of NO _x with hydrocarbons and hydrogen. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 36-44.	10.8	62
118	The use of short time-on-stream in situ spectroscopic transient kinetic isotope techniques to investigate the mechanism of hydrocarbon selective catalytic reduction (HC-SCR) of NO at low temperatures. <i>Journal of Catalysis</i> , 2011, 281, 98-105.	3.1	62
119	Selective Hydrogenation of α,β -Unsaturated Aldehydes and Ketones using Novel Manganese Oxide and Platinum Supported on Manganese Oxide Octahedral Molecular Sieves as Catalysts. <i>ChemCatChem</i> , 2013, 5, 506-512.	1.8	62
120	Ambient Temperature Hydrocarbon Selective Catalytic Reduction of NO _x Using Atmospheric Pressure Nonthermal Plasma Activation of a Ag/Al ₂ O ₃ Catalyst. <i>ACS Catalysis</i> , 2014, 4, 666-673.	5.5	62
121	A catalytic and mechanistic study of the Friedel-Crafts benzylation of anisole using zeolites in ionic liquids. <i>Journal of Catalysis</i> , 2004, 227, 44-52.	3.1	61
122	Effect of Acetonitrile on the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 8180-8188.	1.8	61
123	Pulse-response TAP studies of the reverse water-gas shift reaction over a Pt/CeO ₂ catalyst. <i>Journal of Catalysis</i> , 2006, 237, 102-110.	3.1	61
124	A fast transient kinetic study of the effect of H ₂ on the selective catalytic reduction of NO _x with octane using isotopically labelled ¹⁵ N ₂ O. <i>Journal of Catalysis</i> , 2007, 246, 1-9.	3.1	61
125	Efficient Heterogeneous Asymmetric Catalysis of the Mukaiyama Aldol Reaction by Silica- and Ionic Liquid-Supported Lewis Acid Copper(II) Complexes of Bis(oxazolines). <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 295-302.	2.1	61
126	Chloroindate(III) ionic liquids: recyclable media for Friedel-Crafts acylation reactions. <i>Chemical Communications</i> , 2005, , 903-905.	2.2	60

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127	SpaciMS: spatial and temporal operando resolution of reactions within catalytic monoliths. <i>Analyst</i> , 2010, 135, 2260.	1.7	60
128	Interfacial tensions of imidazolium-based ionic liquids with water and n-alkanes. <i>Fluid Phase Equilibria</i> , 2010, 294, 139-147.	1.4	59
129	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.	1.0	59
130	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.	5.5	59
131	CO ₂ Capture in Wet and Dry Superbase Ionic Liquids. <i>Journal of Solution Chemistry</i> , 2015, 44, 511-527.	0.6	58
132	Probing the Role of a Non-thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9351-9355.	7.2	58
133	Utilisation of ionic liquid solvents for the synthesis of Lily-of-the-Valley fragrance { ¹² -Lilial®; 3-(4-t-butylphenyl)-2-methylpropanal}. <i>Journal of Molecular Catalysis A</i> , 2005, 231, 61-66.	4.8	57
134	Insight into the key aspects of the regeneration process in the NO _x storage reduction (NSR) reaction probed using fast transient kinetics coupled with isotopically labelled ¹⁵ N ₂ over Pt and Rh-containing Ba/Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 81, 150-159.	10.8	57
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