Jackson D Scholten

List of Publications by Citations

53 papers	2,338 citations	22 h-index	48 g-index
58 ext. papers	2,491 ext. citations	7.1 avg, IF	5.24 L-index

#	Paper	IF	Citations
53	On the structural and surface properties of transition-metal nanoparticles in ionic liquids. *Chemical Society Reviews*, **2010**, 39, 1780-804	58.5	669
52	Transition Metal Nanoparticle Catalysis in Ionic Liquids. *ACS Catalysis*, **2012**, 2, 184-200	13.1	284
51	Carbon-carbon cross coupling reactions in ionic liquids catalysed by palladium metal nanoparticles. *Molecules*, **2010**, 15, 3441-61	4.8	128
50	Nanoscale Ru(0) particles: arene hydrogenation catalysts in imidazolium ionic liquids. *Inorganic Chemistry*, **2008**, 47, 8995-9001	5.1	120
49	Cobalt nanocubes in ionic liquids: synthesis and properties. *Angewandte Chemie - International Edition*, **2008**, 47, 9075-8	16.4	100
48	Palladium nanoparticle catalysts in ionic liquids: synthesis, characterisation and selective partial hydrogenation of alkynes to Z-alkenes. *Journal of Materials Chemistry*, **2011**, 21, 3030		90
47	On the involvement of NHC carbenes in catalytic reactions by iridium complexes, nanoparticle and bulk metal dispersed in imidazolium ionic liquids. *Dalton Transactions*, **2007**, 5554-60	4.3	88
46	Imidazolium ionic liquids as promoters and stabilising agents for the preparation of metal(0) nanoparticles by reduction and decomposition of organometallic complexes. *Nanoscale*, **2010**, 2, 2601-6	7.7	76
45	Catalytic gas-to-liquid processing using cobalt nanoparticles dispersed in imidazolium ionic liquids. *ChemSusChem*, **2008**, 1, 291-4	8.3	73
44	Synthesis and Characterisation of Fluorescent Carbon Nanodots Produced in Ionic Liquids by Laser Ablation. *Chemistry - A European Journal*, **2016**, 22, 138-43	4.8	64
43	Tuning the selectivity of ruthenium nanoscale catalysts with functionalised ionic liquids: Hydrogenation of nitriles. *Journal of Molecular Catalysis A*, **2009**, 313, 74-78		61
42	Structural aspects of transition-metal nanoparticles in imidazolium ionic liquids. *International Journal of Nanotechnology*, **2007**, 4, 541	1.5	57
41	Intermolecular hydroamination and hydroarylation reactions of alkenes in ionic liquids. *Tetrahedron Letters*, **2006**, 47, 6775-6779	2	57
40	Decomposition of Formic Acid Catalyzed by a Phosphine-Free Ruthenium Complex in a Task-Specific Ionic Liquid. *ChemCatChem*, **2010**, 2, 1265-1270	5.2	45
39	Alkene Hydroformylation Catalyzed by Rhodium Complexes in Ionic Liquids: Detection of Transient Carbene Species. *Organometallics*, **2008**, 27, 4439-4442	3.8	41
38	Controlled synthesis of Mn3O4 nanoparticles in ionic liquids. *Dalton Transactions*, **2013**, 42, 14473-9	4.3	38
37	Hybrid tantalum oxide nanoparticles from the hydrolysis of imidazolium tantalate ionic liquids: efficient catalysts for hydrogen generation from ethanol/water solutions. *Journal of Materials Chemistry A*, **2016**, 4, 7469-7475	13	31

36	Morphological and crystalline studies of isotactic polypropylene plastically deformed and evaluated by small-angle X-ray scattering, scanning electron microscopy and X-ray diffraction. *European Polymer Journal*, **2009**, 45, 700-713	5.2	26
35	Synergistic CO2 hydrogenation over bimetallic Ru/Ni nanoparticles in ionic liquids. *Applied Catalysis B: Environmental*, **2019**, 252, 10-17	21.8	25
34	Challenging Thermodynamics: Hydrogenation of Benzene to 1,3-Cyclohexadiene by Ru@Pt Nanoparticles. *ChemCatChem*, **2017**, 9, 204-211	5.2	23
33	In situ generated palladium nanoparticles in imidazolium-based ionic liquids: a versatile medium for an efficient and selective partial biodiesel hydrogenation. *Catalysis Science and Technology*, **2011**, 1, 480	5.5	23
32	Ionic liquid as antibacterial agent for an experimental orthodontic adhesive. *Dental Materials*, **2019**, 35, 1155-1165	5.7	22
31	From Soluble to Supported Iridium Metal Nanoparticles: Active and Recyclable Catalysts for Hydrogenation Reactions. *Current Organic Chemistry*, **2013**, 17, 348-363	1.7	20
30	Ionic liquid effect: selective aniline oxidative coupling to azoxybenzene by TiO2. *Catalysis Science and Technology*, **2015**, 5, 1459-1462	5.5	19
29	TiO2 nanomaterials: Highly active catalysts for the oxidation of hydrocarbons. *Journal of Molecular Catalysis A*, **2014**, 383-384, 225-230		19
28	Sputtering deposition of gold nanoparticles onto graphene oxide functionalized with ionic liquids: biosensor materials for cholesterol detection. *Journal of Materials Chemistry B*, **2017**, 5, 9482-9486	7.3	19
27	Mesoporous Foam TiO2 Nanomaterials for Effective Hydrogen Production. *Chemistry - A European Journal*, **2015**, 21, 17624-30	4.8	15
26	When the strategies for cellular selectivity fail. Challenges and surprises in the design and application of fluorescent benzothiadiazole derivatives for mitochondrial staining. *Organic Chemistry Frontiers*, **2019**, 6, 2371-2384	5.2	13
25	Interacting Superparamagnetic Iron(II) Oxide Nanoparticles: Synthesis and Characterization in Ionic Liquids. *Inorganic Chemistry*, **2016**, 55, 865-70	5.1	13
24	Synthesis of Hybrid Zinc-Based Materials from Ionic Liquids: A Novel Route to Prepare Active Zn Catalysts for the Photoactivation of Water and Methane. *ACS Sustainable Chemistry and Engineering* , **2019**, 7, 8090-8098	8.3	9
23	Titanium dioxide nanotubes with triazine-methacrylate monomer to improve physicochemical and biological properties of adhesives. *Dental Materials*, **2021**, 37, 223-235	5.7	8
22	Zinc-based particle with ionic liquid as a hybrid filler for dental adhesive resin. *Journal of Dentistry*, **2020**, 102, 103477	4.8	7
21	Ionic liquid-loaded microcapsules doped into dental resin infiltrants. *Bioactive Materials*, **2021**, 6, 2667-2675	16.7	7
20	Plasma membrane imaging with a fluorescent benzothiadiazole derivative. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 2644-2654	2.5	6
19	Iridium Nanoparticles Prepared in Ionic Liquids: An Efficient Catalytic System for the Hydrogenation of Ketones. *Synlett*, **2004**, 2004, 1525-1528	2.2	6

18	Effect of the magnetic core of (MnFe)2O3@Ta2O5 nanoparticles on photocatalytic hydrogen production. *New Journal of Chemistry*, **2017**, 41, 326-334	3.6	5
17	Hydrogenation with Nanoparticles Using Supported Ionic Liquids **2014**, 263-278		5
16	The effect of an electron-withdrawing group in the imidazolium cation: the case of nitro-functionalized imidazolium salts as acidic catalysts for the acetylation of glycerol. *New Journal of Chemistry*, **2018**, 42, 10774-10783	3.6	5
15	Structural, electronic and catalytic properties of palladium nanoparticles supported on poly(ionic liquid). *Applied Catalysis A: General*, **2018**, 562, 79-86	5.1	5
14	Isothiouronium salts as useful and odorless intermediates for the synthesis of thiaalkylimidazolium ionic liquids. *Tetrahedron Letters*, **2019**, 60, 780-784	2	3
13	Bimetallic RuPd nanoparticles in ionic liquids: selective catalysts for the hydrogenation of aromatic compounds. *New Journal of Chemistry*, **2021**, 45, 98-103	3.6	3
12	Nanoparticle-Catalysts for Hydrogen Storage Based on Small Molecules **2016**, 2,		2
11	Metal Catalysts Immobilized in Ionic Liquids: A Couple with Opportunities for Fine Chemicals Derived from Biomass **2013**, 243-264		1
10	Selective Pd-catalyzed hydrogenation of 3,3-diphenylallyl alcohol: Efficient synthesis of 3,3-diarylpropylamine drugs diisopromine and feniprane. *Catalysis Communications*, **2017**, 102, 53-56	3.2	1
9	Formation of Nanoparticles Assisted by Ionic Liquids **2012**, 1		1
8	Surface active SNS-based dicationic ionic liquids containing amphiphilic anions: Experimental and theoretical studies of their structures and organization in solution. *Journal of Molecular Liquids*, **2021**, 344, 117725	6	1
7	Quantum chemistry study of the interaction between ionic liquid-functionalized TiO quantum dots and methacrylate resin: Implications for dental materials. *Biophysical Chemistry*, **2020**, 265, 106435	3.5	1
6	Sustainable Nitrogen Photofixation Promoted by Carbon Nitride Supported Bimetallic RuPd Nanoparticles under Mild Conditions. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8721-8730	8.3	1
5	Frontispiece: Synthesis and Characterisation of Fluorescent Carbon Nanodots Produced in Ionic Liquids by Laser Ablation. *Chemistry - A European Journal*, **2016**, 22,	4.8	1
4	Co, Rh, and Ir Nanoparticles **2016**, 25-40		
3	Coupling Reactions in Ionic Liquids **2013**, 201-234		
2	Catalytic Properties of Soluble Iridium Nanoparticles369-389		
1	Tantalum Oxide Nanoparticles Prepared from Imidazolium Ionic Liquids as Active Hybrid Materials for Enhanced Photocatalytic Degradation of Dyes. *ChemistrySelect*, **2020**, 5, 13285-13289	1.8	