

Nicholas Gathergood

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.

93 papers	4,654 citations	34 h-index	68 g-index
118 ext. papers	5,076 ext. citations	8.5 avg, IF	5.79 L-index

#	Paper	IF	Citations
93	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 16528-16530	8.3	0
92	Ecotoxicity profiling of a library of 24 L-phenylalanine derived surface-active ionic liquids (SAILs). <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 19, 100369	3.9	1
91	Scalable Lipase-Catalyzed Synthesis of (R)-4-(Acyloxy)pentanoic Acids from Racemic γ -Valerolactone. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1494-1499	8.3	1
90	An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112857	6	4
89	Design rules for environmental biodegradability of phenylalanine alkyl ester linked ionic liquids. <i>Green Chemistry</i> , 2020 , 22, 4498-4508	10	8
88	Ionic liquid based pretreatment of lignocellulosic biomass for enhanced bioconversion. <i>Bioresource Technology</i> , 2020 , 304, 123003	11	136
87	Role of Bacterial-Fungal Consortium for Enhancement in the Degradation of Industrial Dyes. <i>Current Genomics</i> , 2020 , 21, 283-294	2.6	4
86	The Evolution of ACS Sustainable Chemistry & Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1-1	8.3	2
85	Production of microbial lipids from optimized waste office paper hydrolysate, lipid profiling and prediction of biodiesel properties. <i>Renewable Energy</i> , 2020 , 148, 124-134	8.1	18
84	Expectations for Manuscripts Contributing to the Field of Solvents in ACS Sustainable Chemistry & Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14627-14629	8.3	14
83	Synthesis, self-assembly, bacterial and fungal toxicity, and preliminary biodegradation studies of a series of L-phenylalanine-derived surface-active ionic liquids. <i>Green Chemistry</i> , 2019 , 21, 1777-1794	10	33
82	A new class of prophylactic metallo-antibiotic possessing potent anti-cancer and anti-microbial properties. <i>Dalton Transactions</i> , 2019 , 48, 8578-8593	4.3	12
81	Toxicity profiling of 24 L-phenylalanine derived ionic liquids based on pyridinium, imidazolium and cholinium cations and varying alkyl chains using rapid screening <i>Vibrio fischeri</i> bioassay. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 172, 556-565	7	28
80	Non-Toxic and Ultra-Small Biosilver Nanoclusters Trigger Apoptotic Cell Death in Fluconazole-Resistant via Ras Signaling. <i>Biomolecules</i> , 2019 , 9,	5.9	7
79	Site-Selective and Stereoselective C-H Functionalization of N-Cyclopropylamides via a Directed Remote Metalation Strategy. <i>Organic Letters</i> , 2019 , 21, 969-973	6.2	7
78	Food waste: Challenges and opportunities for enhancing the emerging bio-economy. <i>Journal of Cleaner Production</i> , 2019 , 221, 10-16	10.3	75
77	Efficient DNA Condensation by a C-Symmetric Codeine Scaffold. <i>ChemPlusChem</i> , 2019 , 84, 38-42	2.8	3

76	Green profiling of aprotic versus protic ionic liquids: Synthesis and microbial toxicity of analogous structures. <i>Sustainable Chemistry and Pharmacy</i> , 2018 , 7, 17-26	3.9	24
75	Mandelic acid derived ionic liquids: synthesis, toxicity and biodegradability. <i>RSC Advances</i> , 2017 , 7, 2115-2126	3.7	20
74	Physicochemical properties and esterolytic reactivity of oxime functionalized surfactants in pH-responsive mixed micellar system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 524, 143-159	5.1	12
73	Biotechnological Advances for Restoring Degraded Land for Sustainable Development. <i>Trends in Biotechnology</i> , 2017 , 35, 847-859	15.1	48
72	C 3-symmetric opioid scaffolds are pH-responsive DNA condensation agents. <i>Nucleic Acids Research</i> , 2017 , 45, 527-540	20.1	9
71	Effect of structure of polycyclic aromatic substrates on solubilization capacity and size of cationic monomeric and gemini 14-s-14 surfactant aggregates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 509, 613-622	5.1	20
70	On the way to greener ionic liquids: identification of a fully mineralizable phenylalanine-based ionic liquid. <i>Green Chemistry</i> , 2016 , 18, 4361-4373	10	41
69	Synthesis of a series of amino acid derived ionic liquids and tertiary amines: green chemistry metrics including microbial toxicity and preliminary biodegradation data analysis. <i>Green Chemistry</i> , 2016 , 18, 4374-4392	10	57
68	Enantioselective Tsuji-Trost Reactions in Low Toxicity Ionic Liquids. <i>Current Green Chemistry</i> , 2016 , 3, 181-189	1.3	1
67	Degradation of Organophosphate Pesticides Using Pyridinium Based Functional Surfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6962-6973	8.3	23
66	Food Supply Chain Waste: Emerging Opportunities 2016 , 667-680		1
65	Biodegradation of ionic liquids--a critical review. <i>Chemical Society Reviews</i> , 2015 , 44, 8200-37	58.5	276
64	An Organocatalytic Process for the Hydrolytic Cleavage of Dithianes Mediated by Imidazolium Ions: No Harsh Agents Required. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 188-194	3.2	4
63	Amphiphilic glycosylated block copolypeptides as macromolecular surfactants in the emulsion polymerization of styrene. <i>Polymer Chemistry</i> , 2015 , 6, 4634-4640	4.9	8
62	Low toxicity functionalised imidazolium salts for task specific ionic liquid electrolytes in dye-sensitised solar cells: a step towards less hazardous energy production. <i>Green Chemistry</i> , 2014 , 16, 2252-2265	10	38
61	Copper phenanthrene oxidative chemical nucleases. <i>Inorganic Chemistry</i> , 2014 , 53, 5392-404	5.1	55
60	Novel bronchodilatory quinazolines and quinoxalines: synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2014 , 74, 65-72	6.8	11
59	Tandem ionic liquid antimicrobial toxicity and asymmetric catalysis study: carbonyl-ene reactions with trifluoropyruvate. <i>Green Chemistry</i> , 2013 , 15, 2727	10	7

58	A new generation of aprotic yet Brønsted acidic imidazolium salts: effect of ester/amide groups in the C-2, C-4 and C-5 on antimicrobial toxicity and biodegradation. <i>Green Chemistry</i> , 2013 , 15, 2747	10	44
57	A new generation of aprotic yet Brønsted acidic imidazolium salts: low toxicity, high recyclability and greatly improved activity. <i>Green Chemistry</i> , 2013 , 15, 2740	10	43
56	Synthesis of polypeptide block copolymer hybrids by the combination of N-carboxyanhydride polymerization and RAFT. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1325-9	4.8	24
55	A new phenanthroline-oxazine ligand: synthesis, coordination chemistry and atypical DNA binding interaction. <i>Chemical Communications</i> , 2013 , 49, 2341-3	5.8	34
54	The catalytic versatility of low toxicity dialkyltriazolium salts: in situ modification facilitates diametrically opposed catalysis modes in one pot. <i>Chemical Communications</i> , 2013 , 49, 5316-8	5.8	41
53	Biomass derived ionic liquids: synthesis from natural organic acids, characterization, toxicity, biodegradation and use as solvents for catalytic hydrogenation processes. <i>Tetrahedron</i> , 2013 , 69, 6150-6161	2.4	66
52	Imidazolium and Pyridinium Ionic Liquids from Mandelic Acid Derivatives: Synthesis and Bacteria and Algae Toxicity Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 393-402	8.3	63
51	Regulating bioactivity of Cu ²⁺ bis-1,10-phenanthroline artificial metallonucleases with sterically functionalized pendant carboxylates. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 8599-615	8.3	47
50	Tetrabutylammonium proline-based ionic liquids: a combined asymmetric catalysis, antimicrobial toxicity and biodegradation assessment. <i>RSC Advances</i> , 2013 , 3, 26241	3.7	43
49	Designing Safer and Greener Antibiotics. <i>Antibiotics</i> , 2013 , 2, 419-38	4.9	10
48	Antimicrobial toxicity studies of ionic liquids leading to a BitMRSA selective antibacterial imidazolium salt. <i>Green Chemistry</i> , 2012 , 14, 1350	10	86
47	Introduction of Biomass and Biorefineries 2012 , 1-26		1
46	Biorefinery with Ionic Liquids 2012 , 75-133		4
45	Supercritical CO ₂ as an Environmentally Benign Medium for Biorefinery 2012 , 181-204		3
44	Organosolv Biorefining Platform for Producing Chemicals, Fuels, and Materials from Lignocellulose 2012 , 241-262		3
43	Microwave Technology for Lignocellulosic Biorefinery 2012 , 281-291		2
42	Assessment of the Ecotoxicological and Environmental Effects of Biorefineries 2012 , 435-467		
41	Ultrasonics for Enhanced Fluid Biofuel Production 2012 , 375-405		

40	Heterogeneous Catalysts for Biomass Conversion 2012 , 313-348		2
39	Recent Advances in Green Chemistry 2012 , 27-73		
38	Biorefinery with Water 2012 , 135-180		2
37	Dissolution and Application of Cellulose in NaOH/Urea Aqueous Solution 2012 , 205-240		1
36	Pyrolysis Oils from Biomass and Their Upgrading 2012 , 263-280		
35	Biorefinery with Microbes 2012 , 293-311		
34	Catalytic Conversion of Glycerol 2012 , 349-373		
33	Advanced Membrane Technology for Products Separation in Biorefinery 2012 , 407-433		
32	Design of Safer Chemicals [Ionic Liquids 2012 , 137		
31	Designing Safer Organocatalysts [What Lessons Can Be Learned When the Rebirth of an Old Research Area Coincides with the Advent of Green Chemistry? 2012 , 159		
30	Synthesis, X-ray Crystal Studies and Metal Picrates Extraction Properties of Lipophilic Benzocrown Ethers. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1348	1.2	1
29	Highly recyclable, imidazolium derived ionic liquids of low antimicrobial and antifungal toxicity: A new strategy for acid catalysis. <i>Green Chemistry</i> , 2010 , 12, 1157	10	57
28	Biodegradation studies of ionic liquids. <i>Chemical Society Reviews</i> , 2010 , 39, 600-37	58.5	451
27	The presence of functional groups key for biodegradation in ionic liquids: effect on gas solubility. <i>ChemSusChem</i> , 2010 , 3, 377-85	8.3	46
26	Catalysis of Reactions by Amino Acids 2010 , 281-337		3
25	Biodegradable, non-bactericidal oxygen-functionalised imidazolium esters: A step towards greener [Ionic liquids. <i>Green Chemistry</i> , 2009 , 11, 475	10	138
24	Selective hydrogenation of trans-cinnamaldehyde and hydrogenolysis-free hydrogenation of benzyl cinnamate in imidazolium ILs. <i>Green Chemistry</i> , 2009 , 11, 466-474	10	25
23	Biodegradable Ionic Liquids: Selected Synthetic Applications. <i>Australian Journal of Chemistry</i> , 2007 , 60, 843	1.2	31

22	Biodegradable ionic liquids. <i>Green Chemistry</i> , 2006 , 8, 156	10	256
21	Oxidised guanidinohydantoin (Ghox) and spiroiminodihydantoin (Sp) are major products of iron- and copper-mediated 8-oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2'-deoxyguanosine oxidation. <i>Molecular BioSystems</i> , 2005 , 1, 373-81		25
20	Determination of psilocin and psilocybin using flow injection analysis with acidic potassium permanganate and tris(2,2'-bipyridyl)ruthenium(II) chemiluminescence detection respectively. <i>Talanta</i> , 2005 , 67, 354-9	6.2	25
19	Biodegradable ionic liquids. <i>Green Chemistry</i> , 2005 , 7, 9	10	453
18	Manganese Dioxide Allylic and Benzylic Oxidation Reactions in Ionic Liquids. <i>Australian Journal of Chemistry</i> , 2004 , 57, 125	1.2	22
17	Biodegradable ionic liquids: Part I. Concept, preliminary targets and evaluation. <i>Green Chemistry</i> , 2004 , 6, 166	10	406
16	Direct catalytic asymmetric aldol reactions of pyruvates: scope and mechanism. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 1077-85	3.9	65
15	Preparation of the 4-hydroxytryptamine scaffold via palladium-catalyzed cyclization: a practical and versatile synthesis of psilocin. <i>Organic Letters</i> , 2003 , 5, 921-3	6.2	47
14	Direct catalytic asymmetric mannich reactions of malonates and beta-keto esters. <i>Chemistry - A European Journal</i> , 2003 , 9, 2359-67	4.8	136
13	Inter- and intramolecular C-H...pi interactions in morphine bis(1-naphthoate). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003 , 59, o485-7		4
12	7,8-Didehydro-4,5-epoxy-17-methylmorphinan-6-yl naphthalene-1-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003 , 59, o1918-o1919		
11	Catalytic Asymmetric Direct Mannich Reactions of Carbonyl Compounds with β -Amino Esters. <i>Angewandte Chemie</i> , 2001 , 113, 3083-3085	3.6	82
10	Catalytic Asymmetric Direct Mannich Reactions of Carbonyl Compounds with β -Amino Esters. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2995-7	16.4	198
9	Catalytic, highly enantioselective Friedel-Crafts reactions of aromatic and heteroaromatic compounds to trifluoropyruvate. A simple approach for the formation of optically active aromatic and heteroaromatic hydroxy trifluoromethyl esters. <i>Journal of Organic Chemistry</i> , 2001 , 66, 1009-13	4.2	176
8	Enantioselective synthesis of optically active carbocyclic sugars. <i>Journal of Organic Chemistry</i> , 2001 , 66, 1014-7	4.2	14
7	Formation of Optically Active Aromatic β -Amino Acids by Catalytic Enantioselective Addition of Imines to Aromatic Compounds. <i>Angewandte Chemie</i> , 2000 , 112, 4280-4282	3.6	27
6	Formation of Optically Active Aromatic α -Amino Acids by Catalytic Enantioselective Addition of Imines to Aromatic Compounds This work was made possible by a grant from the Danish National Research Foundation. Thanks are provided to Dr. Rita G. Hazell for X-ray analysis. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4114-4116	16.4	86
5	Catalytic Enantioselective Friedel-Crafts Reactions of Aromatic Compounds with Glyoxylate: A Simple Procedure for the Synthesis of Optically Active Aromatic Mandelic Acid Esters. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12517-12522	16.4	162

4	Catalytic asymmetric homo-aldol reaction of pyruvate by chiral Lewis acid catalyst that mimics aldolase enzymes. <i>Chemical Communications</i> , 2000 , 2211-2212	5.8	57
3	Catalytic Approach for the Formation of Optically Active Allyl alpha-Amino Acids by Addition of Allylic Metal Compounds to alpha-Imino Esters. <i>Journal of Organic Chemistry</i> , 1999 , 64, 4844-4849	4.2	103
2	Synthesis of optically active bicyclic lactone building blocks using catalytic enantioselective glyoxylate-ene reaction. <i>Chemical Communications</i> , 1999 , 1869-1870	5.8	17
1	Microbial biodiesel production from lignocellulosic biomass: New insights and future challenges. <i>Critical Reviews in Environmental Science and Technology</i> , 1-30	11.1	8