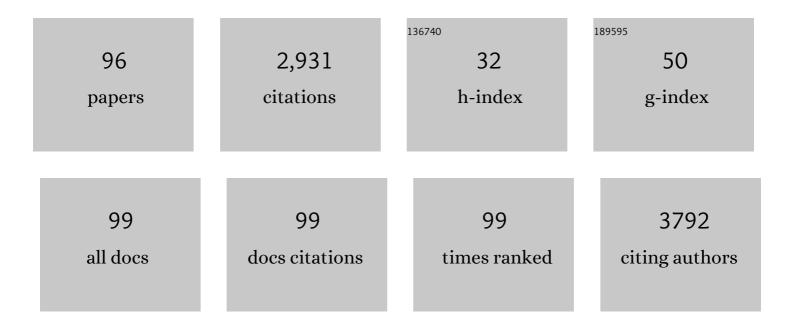
List of Publications by Year in descending order

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Διπαρ Ματηαρίι

#	Article	IF	CITATIONS
1	Liquid crystals for holographic optical data storage. Chemical Society Reviews, 2007, 36, 1868.	18.7	217
2	Current and future trends in food waste valorization for the production of chemicals, materials and fuels: a global perspective. Biofuels, Bioproducts and Biorefining, 2014, 8, 686-715.	1.9	148
3	Opportunity for high value-added chemicals from food supply chain wastes. Bioresource Technology, 2016, 215, 123-130.	4.8	145
4	Highly stable AgNPs prepared via a novel green approach for catalytic and photocatalytic removal of biological and non-biological pollutants. Environment International, 2020, 143, 105924.	4.8	108
5	Thermosetting resin based on epoxidised linseed oil and bio-derived crosslinker. Green Chemistry, 2012, 14, 1759.	4.6	107
6	New insights into the curing of epoxidized linseed oil with dicarboxylic acids. Green Chemistry, 2015, 17, 4000-4008.	4.6	106
7	The significance of D-amino acids in soil, fate and utilization by microbes and plants: review and identification of knowledge gaps. Plant and Soil, 2012, 354, 21-39.	1.8	96
8	Applications of nanoparticles in biomass conversion to chemicals and fuels. Green Chemistry, 2014, 16, 573-584.	4.6	96
9	Enhanced Protein Extraction from Oilseed Cakes Using Glycerol–Choline Chloride Deep Eutectic Solvents: A Biorefinery Approach. ACS Sustainable Chemistry and Engineering, 2018, 6, 15791-15800.	3.2	72
10	Microwave-assisted hydrothermal treatments for biomass valorisation: a critical review. Green Chemistry, 2021, 23, 3502-3525.	4.6	70
11	Perspectives on "Game Changer―Global Challenges for Sustainable 21st Century: Plant-Based Diet, Unavoidable Food Waste Biorefining, and Circular Economy. Sustainability, 2020, 12, 1976.	1.6	67
12	Low-temperature microwave-assisted pyrolysis of waste office paper and the application of bio-oil as an Al adhesive. Green Chemistry, 2015, 17, 260-270.	4.6	65
13	Acid-free microwave-assisted hydrothermal extraction of pectin and porous cellulose from mango peel waste – towards a zero waste mango biorefinery. Green Chemistry, 2016, 18, 5280-5287.	4.6	64
14	The Hy-MASS concept: hydrothermal microwave assisted selective scissoring of cellulose for in situ production of (meso)porous nanocellulose fibrils and crystals. Green Chemistry, 2017, 19, 3408-3417.	4.6	58
15	Synthesis and Characterization of Bacterial Cellulose from Citrus-Based Sustainable Resources. ACS Omega, 2018, 3, 10365-10373.	1.6	58
16	The importance of elemental sustainability and critical element recovery. Green Chemistry, 2015, 17, 1949-1950.	4.6	55
17	Laterally fluorinated liquid crystals containing the 2,2′â€bithiophene moiety. Liquid Crystals, 2007, 34, 489-506.	0.9	47
18	Life-Cycle Assessment of Microwave-Assisted Pectin Extraction at Pilot Scale. ACS Sustainable Chemistry and Engineering, 2019, 7, 5167-5175.	3.2	46

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19	Hybridised sustainability metrics for use in life cycle assessment of bio-based products: resource efficiency and circularity. Green Chemistry, 2020, 22, 803-813.	4.6	45
20	Recycling bread waste into chemical building blocks using a circular biorefining approach. Sustainable Energy and Fuels, 2021, 5, 4842-4849.	2.5	45
21	Valorisation of Biowastes for the Production of Green Materials Using Chemical Methods. Topics in Current Chemistry, 2017, 375, 46.	3.0	44
22	Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). Pure and Applied Chemistry, 2020, 92, 1733-1767.	0.9	42
23	Recent Advances in Green Synthesis of Ag NPs for Extenuating Antimicrobial Resistance. Nanomaterials, 2022, 12, 1115.	1.9	42
24	Electrically commanded surfaces for nematic liquid crystal displays. Applied Physics Letters, 2005, 86, 023502.	1.5	41
25	Antimicrobial activity of a silver-microfibrillated cellulose biocomposite against susceptible and resistant bacteria. Scientific Reports, 2020, 10, 7281.	1.6	41
26	Ferro-, ferri- and antiferro-electric behaviour in a bent-shaped mesogen. Journal of Materials Chemistry, 2000, 10, 1303-1310.	6.7	39
27	The Synthesis and Liquid Crystal Properties of Certain 5,5″-Disubstituted 2,2′:5′,2″-Terthiophenes. Molecular Crystals and Liquid Crystals, 1995, 265, 61-76.	0.3	38
28	The synthesis and characterisation of a novel thiophene-based liquid crystal exhibiting ferro-, ferri- and antiferro-electric phase types. Journal of Materials Chemistry, 1996, 6, 1871.	6.7	38
29	From waste to wealth using green chemistry. Pure and Applied Chemistry, 2013, 85, 1625-1631.	0.9	38
30	Chemical modification of starch and the application of expanded starch and its esters in hot melt adhesive. RSC Advances, 2014, 4, 41947-41955.	1.7	37
31	Structure–property investigation of 2―and 3â€ŧhienylacrylates bearing laterally fluorinated azobenzene moieties. Liquid Crystals, 2007, 34, 1317-1336.	0.9	33
32	Bio-based thermoset composites from epoxidised linseed oil and expanded starch. RSC Advances, 2014, 4, 23304-23313.	1.7	32
33	Silver nanostructures prepared via novel green approach as an effective platform for biological and environmental applications. Saudi Journal of Biological Sciences, 2022, 29, 103296.	1.8	31
34	Synthesis and optical storage properties of a thiophene-based holographic recording medium. Journal of Materials Chemistry, 2007, 17, 4477.	6.7	29
35	Production of fermentable species by microwave-assisted hydrothermal treatment of biomass carbohydrates: reactivity and fermentability assessments. Green Chemistry, 2018, 20, 4507-4520.	4.6	29
36	The chemical value of wheat straw combustion residues. RSC Advances, 2011, 1, 523.	1.7	28

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37	Processing of Citrus Nanostructured Cellulose: A Rigorous Designâ€ofâ€Experiment Study of the Hydrothermal Microwaveâ€Assisted Selective Scissoring Process. ChemSusChem, 2018, 11, 1344-1353.	3.6	28
38	Azo containing thiophene based prop-2-enoates for photoalignment of a nematic liquid crystal. Journal of Materials Chemistry C, 2013, 1, 3600.	2.7	27
39	Valorization of Waste Orange Peel to Produce Shear-Thinning Gels. Journal of Chemical Education, 2019, 96, 3025-3029.	1.1	27
40	Toward Renewable-Based, Food-Applicable Prebiotics from Biomass: A One-Step, Additive-Free, Microwave-Assisted Hydrothermal Process for the Production of High Purity Xylo-oligosaccharides from Beech Wood Hemicellulose. ACS Sustainable Chemistry and Engineering, 2019, 7, 16160-16172.	3.2	25
41	Potential Utilization of Unavoidable Food Supply Chain Wastes–Valorization of Pea Vine Wastes. ACS Sustainable Chemistry and Engineering, 2016, 4, 6002-6009.	3.2	24
42	Simultaneous production of lignin and polysaccharide rich aqueous solutions by microwave-assisted hydrothermal treatment of rapeseed meal. Energy Conversion and Management, 2018, 165, 634-648.	4.4	24
43	Starbon/Highâ€Amylose Corn Starchâ€Supported Nâ€Heterocyclic Carbene–Iron(III) Catalyst for Conversion of Fructose into 5â€Hydroxymethylfurfural. ChemSusChem, 2018, 11, 716-725.	3.6	23
44	A biorefinery strategy for spent industrial ginger waste. Journal of Hazardous Materials, 2021, 401, 123400.	6.5	23
45	Unavoidable food supply chain waste: acid-free pectin extraction from mango peel via subcritical water. Faraday Discussions, 2017, 202, 31-42.	1.6	22
46	Water activity in liquid food systems: A molecular scale interpretation. Food Chemistry, 2017, 237, 1133-1138.	4.2	21
47	A novel molybdenum oxide–Starbon catalyst for wastewater remediation. Journal of Materials Chemistry A, 2020, 8, 14519-14527.	5.2	19
48	Properties of the liquid crystals formed by certain 4′-n-alkylbiphenyl-4-yl 5-n-alkylthiophene-2-carboxylates. Liquid Crystals, 1995, 19, 387-396.	0.9	17
49	Using Greener Gels To Explore Rheology. Journal of Chemical Education, 2017, 94, 500-504.	1.1	17
50	Monitoring the Crystalline Structure of Sugar Cane Bagasse in Aqueous Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2017, 5, 7278-7283.	3.2	17
51	Defibrillated Celluloses via Dual Twin-Screw Extrusion and Microwave Hydrothermal Treatment of Spent Pea Biomass. ACS Sustainable Chemistry and Engineering, 2019, 7, 11861-11871.	3.2	17
52	Biologically bound nickel as a sustainable catalyst for the selective hydrogenation of cinnamaldehyde. Applied Catalysis B: Environmental, 2022, 306, 121105.	10.8	17
53	Expanding the potential for waste polyvinyl-alcohol. Green Chemistry, 2009, 11, 1332.	4.6	16
54	From unavoidable food waste to advanced biomaterials: microfibrilated lignocellulose production by microwave-assisted hydrothermal treatment of cassava peel and almond hull. Cellulose, 2021, 28, 7687-7705.	2.4	14

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55	Recent advances made in the synthesis of small drug molecules for clinical applications: An insight. Current Research in Green and Sustainable Chemistry, 2021, 4, 100097.	2.9	14
56	Tuning the selectivity of natural oils and fatty acids/esters deoxygenation to biofuels and fatty alcohols: A review. Green Energy and Environment, 2023, 8, 722-743.	4.7	14
57	Deep Eutectic Solvents Based on Natural Ascorbic Acid Analogues and Choline Chloride. ChemistryOpen, 2020, 9, 559-567.	0.9	13
58	Decolonizing the Undergraduate Chemistry Curriculum: An Account of How to Start. Journal of Chemical Education, 2022, 99, 5-9.	1.1	13
59	Novel Bi- and Ter-Thiophenes Exhibiting Ferri- and Antiferro-Electric Behaviour. Molecular Crystals and Liquid Crystals, 1999, 332, 303-311.	0.3	12
60	A New Step Forward Nonseasonal 5G Biorefineries: Microwave-Assisted, Synergistic, Co-Depolymerization of Wheat Straw (2G Biomass) and <i>Laminaria saccharina</i> (3G Biomass). ACS Sustainable Chemistry and Engineering, 2020, 8, 12493-12510.	3.2	12
61	A study of homologation and the occurrence of an S _A -S _C -S _A sequence of phases in the 4- <i>n</i> -alkoxy-3-fluorophenyl 4-(5- <i>n</i> -alkyl-2-thienyl)benzoates. Liquid Crystals, 1993, 14, 645-652.	0.9	11
62	The role of surface functionality of sustainable mesoporous materials Starbon® on the adsorption of toxic ammonia and sulphur gasses. Sustainable Chemistry and Pharmacy, 2020, 15, 100230.	1.6	11
63	Efficacy and sustainability of natural products in COVID-19 treatment development: opportunities and challenges in using agro-industrial waste from Citrus and apple. Heliyon, 2021, 7, e07816.	1.4	11
64	Phytocat – a bio-derived Ni catalyst for rapid de-polymerization of polystyrene using a synergistic approach. Green Chemistry, 2021, 23, 808-814.	4.6	11
65	Exploring the mesomorphic potential of 2,4-disubstituted thiophenes: a structure–property study. Liquid Crystals, 2011, 38, 207-232.	0.9	10
66	Kinetic and Desorption Study of Selected Bioactive Compounds on Mesoporous Starbons: A Comparison with Microporous-Activated Carbon. ACS Omega, 2018, 3, 18361-18369.	1.6	10
67	Analysis and optimisation of a novel â€~almond-refinery' concept: Simultaneous production of biofuels and value-added chemicals by hydrothermal treatment of almond hulls. Science of the Total Environment, 2021, 765, 142671.	3.9	10
68	X-ray diffraction studies of the liquid crystal phases of certain 4- <i>n</i> -alkoxyphenyl 4-(5- <i>n</i> -alkyl-2-thienyl)benzoates. Liquid Crystals, 1995, 19, 693-698.	0.9	9
69	Optic, electrooptic and dielectric properties of novel antiferroelectric liquid crystal compounds. Ferroelectrics, 2000, 244, 147-157.	0.3	7
70	Spent Mango Cellulose-Supported <i>N</i> -Heterocyclic Carbene-Iron(III) Catalyst for Fructose to HMF Dehydration. ACS Sustainable Chemistry and Engineering, 2019, 7, 14899-14905.	3.2	7
71	The synthesis and liquid crystal properties of certain 1-(4′- <i>n</i> -alkoxy-2,2′,3,3′,5,5′,6,6′-octafluorobiphenyl-4-yl)- 2-(<i>trans</i> -4- <i>n</i> -pentylcyclohexyl)-ethanes and -ethenes. Liquid Crystals, 1995, 19, 39-45.	0.9	6
72	Holographic recording in thiophene-based polyester. Journal of Materials Chemistry, 2008, 18, 3011.	6.7	6

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73	What Makes a Professional Chemist? Embedding Equality, Diversity, and Inclusion into Chemistry Skills Training for Undergraduates. Journal of Chemical Education, 2022, 99, 480-486.	1.1	6
74	The Synthesis and Liquid Crystal Properties of certain 4′-Alkoxy-2,2′,3,3′,5,5′,6,6′-octafluorobiphenyl-4-yl-trans-4-alkylcyclohexane-1-carboxylates. Molec Crystals and Liquid Crystals, 1995, 258, 95-105.	ul a r.3	5
75	Unexpected nitrile formation in bio-based mesoporous materials (Starbons \hat{A}^{\otimes}). Chemical Communications, 2018, 54, 686-688.	2.2	5
76	Toward a Zero-Waste Biorefinery: Confocal Microscopy as a Tool for the Analysis of Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2018, 6, 13185-13191.	3.2	5
77	Microwave-Assisted Defibrillation of Microalgae. Molecules, 2021, 26, 4972.	1.7	5
78	The Synthesis and Liquid Crystal Properties of Certain 5,5″-Disubstituted 2,2′:5′,2″-Terthienyls. Molec Crystals and Liquid Crystals, 1995, 264, 227-230.	ular 0.3	4
79	Properties of the Liquid Crystals Formed by Certain Azomethines Containing Terminal Cycloalkyl Ring Systems. Molecular Crystals and Liquid Crystals, 1995, 258, 217-228.	0.3	4
80	Photochromic Polymers for Optical Data Storage: Azobenzenes and Photodimers. , 0, , 209-234.		4
81	Bio-based materials: general discussion. Faraday Discussions, 2017, 202, 121-139.	1.6	3
82	Superior Mesoporosity of Lipidâ€Free Spent Coffee Ground Residues. ChemSusChem, 2019, 12, 4074-4081.	3.6	3
83	Toward Novel Biocomposites from Unavoidable Food Supply Chain Wastes and Zirconia. ACS Sustainable Chemistry and Engineering, 2020, 8, 14039-14046.	3.2	3
84	Mesoporous-rich calcium and potassium-activated carbons prepared from degreased spent coffee grounds for efficient removal of MnO ₄ ^{2â^²} in aqueous media. RSC Advances, 2022, 12, 19417-19423.	1.7	3
85	Synthesis of Certain Mesogenic Azomethines Derived from 4-Cycloalkylanilines and from 4-Cycloalkylbenzaldehydes. Molecular Crystals and Liquid Crystals, 1995, 258, 229-237.	0.3	2
86	From mushroom alcohol to liquid crystals: a useful platform molecule. Liquid Crystals, 2014, 41, 1388-1393.	0.9	2
87	Feedstocks and analysis: general discussion. Faraday Discussions, 2017, 202, 497-519.	1.6	2
88	Food Supply Chain Waste: A Functional Periodic Table of Bio-Based Resources. , 2018, , 219-236.		2
89	Highly Efficient Mesoporous Carbonaceous CeO ₂ Catalyst for Dephosphorylation. ACS Omega, 2022, 7, 22551-22558.	1.6	2
90	Use of Carbotrace 480 as a Probe for Cellulose and Hydrogel Formation from Defibrillated Microalgae. Gels, 2022, 8, 383.	2.1	2

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91	Fermentable Liquid Energy Carriers by Microwave-Assisted Hydrothermal Depolymerisation of Several Biomass Carbohydrates. Innovative Renewable Energy, 2020, , 909-920.	0.2	1
92	In celebration of the 65th birthday of Professor James Clark. Green Chemistry, 2016, 18, 3469-3470.	4.6	0
93	Bio-based chemicals: general discussion. Faraday Discussions, 2017, 202, 227-245.	1.6	Ο
94	Conversion technologies: general discussion. Faraday Discussions, 2017, 202, 371-389.	1.6	0
95	Microwave-Assisted Hydrothermal Valorisation of Rapeseed Meal for the Co-Production of High Purity Lignin and Saccharide-Rich Aqueous Solutions. Innovative Renewable Energy, 2020, , 747-759.	0.2	0
96	Unforeseen crystal forms of the natural osmolyte floridoside. Communications Chemistry, 2020, 3, .	2.0	0