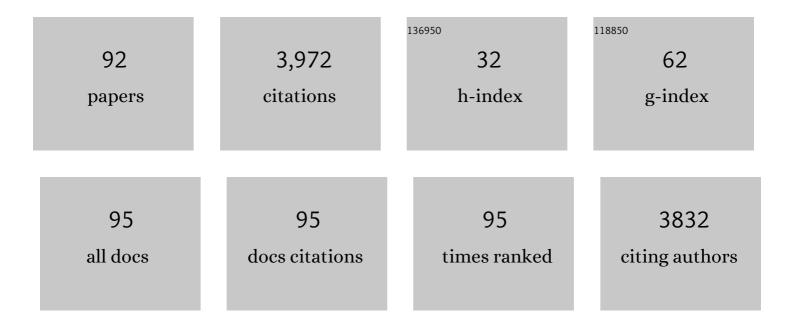
## **Charles L Liotta**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reversible nonpolar-to-polar solvent. Nature, 2005, 436, 1102-1102.	27.8	836
2	Switchable Solvents Consisting of Amidine/Alcohol or Guanidine/Alcohol Mixtures. Industrial & Engineering Chemistry Research, 2008, 47, 539-545.	3.7	238
3	Solvents for sustainable chemical processes. Green Chemistry, 2014, 16, 1034-1055.	9.0	192
4	Neoteric solvents for asymmetric hydrogenation: supercritical fluids, ionic liquids, and expanded ionic liquidsThis work was presented at the Green Solvents for Catalysis Meeting held in Bruchsal, Germany, 13–16th October 2002 Green Chemistry, 2003, 5, 123-128.	9.0	131
5	Cosolvent interactions in supercritical fluid solutions. AICHE Journal, 1993, 39, 235-248.	3.6	125
6	Cross-Linking and Modification of Poly(ethylene terephthalate-co-2,6-anthracenedicarboxylate) by Dielsâ^'Alder Reactions with Maleimides. Macromolecules, 1999, 32, 5786-5792.	4.8	121
7	Ionic liquids as catalytic green solvents for nucleophilic displacement reactions. Chemical Communications, 2001, , 887-888.	4.1	110
8	In Situ Formation of Alkylcarbonic Acids with CO2. Journal of Physical Chemistry A, 2001, 105, 3947-3948.	2.5	104
9	Switchable solvents. Chemical Science, 2011, 2, 609.	7.4	100
10	One-component, switchable ionic liquids derived from siloxylated amines. Chemical Communications, 2009, , 116-118.	4.1	93
11	The catalytic opportunities of near-critical water: a benign medium for conventionally acid and base catalyzed condensations for organic synthesis. Green Chemistry, 2003, 5, 663-669.	9.0	92
12	CO2-Protected Amine Formation from Nitrile and Imine Hydrogenation in Gas-Expanded Liquids. Industrial & Engineering Chemistry Research, 2004, 43, 7907-7911.	3.7	84
13	Single component, reversible ionic liquids for energy applications. Fuel, 2010, 89, 1315-1319.	6.4	84
14	Nucleoside phosphorylation by the mineral schreibersite. Scientific Reports, 2015, 5, 17198.	3.3	82
15	Reversible in situ acid formation for β-pinene hydrolysis using CO2expanded liquid and hot water. Green Chemistry, 2004, 6, 382-386.	9.0	78
16	Near-Critical Water:Â A Benign Medium for Catalytic Reactions. Industrial & Engineering Chemistry Research, 2001, 40, 6063-6067.	3.7	77
17	Benign coupling of reactions and separations with reversible ionic liquids. Tetrahedron, 2010, 66, 1082-1090.	1.9	70
18	COSMO-RS Studies: Structure–Property Relationships for CO <sub>2</sub> Capture by Reversible Ionic Liquids. Industrial & Engineering Chemistry Research, 2012, 51, 16066-16073.	3.7	65

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19	Kinetics of a Phase-Transfer Catalysis Reaction in Supercritical Fluid Carbon Dioxide. Industrial & Engineering Chemistry Research, 1996, 35, 1801-1806.	3.7	63
20	Tunable solvents for fine chemicals from the biorefinery. Green Chemistry, 2007, 9, 545.	9.0	58
21	Polarity and hydrogen-bonding of ambient to near-critical water: Kamlet–Taft solvent parameters. Chemical Communications, 2001, , 665-666.	4.1	57
22	Phase Equilibria for Binary Aqueous Systems from a Near-Critical Water Reaction Apparatus. Industrial & Engineering Chemistry Research, 1998, 37, 3515-3518.	3.7	56
23	Spectroscopic measurement of solid solubility in supercritical fluids. AICHE Journal, 2001, 47, 2566-2572.	3.6	51
24	CO2-Induced Miscibility of Fluorous and Organic Solvents for Recycling Homogeneous Catalysts. Industrial & Engineering Chemistry Research, 2004, 43, 4827-4832.	3.7	51
25	Tuning alkylation reactions with temperature in near-critical water. AICHE Journal, 1998, 44, 2080-2087.	3.6	49
26	Reversible Ionic Liquid Stabilized Carbamic Acids: A Pathway Toward Enhanced CO <sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 2013, 52, 13159-13163.	3.7	47
27	Palladium-Catalyzed Suzuki Reactions in Water with No Added Ligand: Effects of Reaction Scale, Temperature, pH of Aqueous Phase, and Substrate Structure. Organic Process Research and Development, 2016, 20, 1489-1499.	2.7	41
28	Piperylene Sulfone:Â A Recyclable Dimethyl Sulfoxide Substitute for Copper-Catalyzed Aerobic Alcohol Oxidation. Industrial & Engineering Chemistry Research, 2008, 47, 627-631.	3.7	39
29	Production of Tartrates by Cyanide-Mediated Dimerization of Glyoxylate: A Potential Abiotic Pathway to the Citric Acid Cycle. Journal of the American Chemical Society, 2013, 135, 13440-13445.	13.7	39
30	Cosolvent tuning of tautomeric equilibrium in supercritical fluids. AICHE Journal, 1997, 43, 515-524.	3.6	38
31	Hydroformylation Catalyst Recycle with Gas-Expanded Liquids. Industrial & Engineering Chemistry Research, 2008, 47, 2585-2589.	3.7	36
32	Self-neutralizing in situ Acid Catalysts from CO2. Topics in Catalysis, 2006, 37, 75-80.	2.8	35
33	The Synthesis and the Chemical and Physical Properties of Nonâ€Aqueous Silylamine Solvents for Carbon Dioxide Capture. ChemSusChem, 2012, 5, 2181-2187.	6.8	32
34	Photochemical Cross-Linking of Poly(ethylene terephthalate-co-2,6-anthracenedicarboxylate). Macromolecules, 2000, 33, 1640-1645.	4.8	31
35	Self-Neutralizing in Situ Acid Catalysis for Single-Pot Synthesis of Iodobenzene and Methyl Yellow in CO <sub>2</sub> -Expanded Methanol. Industrial & Engineering Chemistry Research, 2007, 46, 5252-5257.	3.7	31
36	Design, Synthesis, and Evaluation of Nonaqueous Silylamines for Efficient CO <sub>2</sub> Capture. ChemSusChem, 2014, 7, 299-307.	6.8	30

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37	Enhanced thermal stabilization and reduced color formation of plasticized Poly(vinyl chloride) using zinc and calcium salts of 11-maleimideoundecanoic acid. Polymer Degradation and Stability, 2015, 111, 64-70.	5.8	29
38	Acylation of activated aromatics without added acid catalyst. Chemical Communications, 2000, , 1295-1296.	4.1	28
39	Solvent Effects on the Kinetics of a Dielsâ~'Alder Reaction in Gas-Expanded Liquids. Industrial & Engineering Chemistry Research, 2008, 47, 632-637.	3.7	28
40	Coupling chiral homogeneous biocatalytic reactions with benign heterogeneous separation. Green Chemistry, 2007, 9, 888.	9.0	26
41	Indoles via Knoevenagel–Hemetsberger reaction sequence. RSC Advances, 2013, 3, 13232.	3.6	22
42	Rapid resolution of carbohydrate isomers <i>via</i> multi-site derivatization ion mobility-mass spectrometry. Analyst, The, 2018, 143, 949-955.	3.5	22
43	Mechanisms and Applications of Solid—Liquid Phase-Transfer Catalysis. ACS Symposium Series, 1997, , 29-40.	0.5	18
44	Pyrene and anthracene dicarboxylic acids as fluorescent brightening comonomers for polyester. Journal of Polymer Science Part A, 2000, 38, 1291-1301.	2.3	18
45	Epoxidized linolenic acid salts as multifunctional additives for the thermal stability of plasticized PVC. Journal of Applied Polymer Science, 2015, 132, .	2.6	18
46	The Effects of Solvent and Added Bases on the Protection of Benzylamines with Carbon Dioxide. Processes, 2015, 3, 497-513.	2.8	17
47	Supercritical Fluid Separation for Selective Quaternary Ammonium Salt Promoted Esterification of Terephthalic Acid. Industrial & amp; Engineering Chemistry Research, 1999, 38, 3622-3627.	3.7	16
48	Switchable Solvents for in-Situ Acid-Catalyzed Hydrolysis of β-Pinene. Industrial & Engineering Chemistry Research, 2009, 48, 2542-2547.	3.7	16
49	A Tandem, Bicatalytic Continuous Flow Cyclopropanation-Homo-Nazarov-Type Cyclization. Industrial & Engineering Chemistry Research, 2015, 54, 9550-9558.	3.7	15
50	Anchimericâ€Assisted Spontaneous Hydrolysis of Cyanohydrins Under Ambient Conditions: Implications for Cyanideâ€Initiated Selective Transformations. Chemistry - A European Journal, 2017, 23, 8756-8765.	3.3	15
51	Surface modification of polybutadiene facilitated by supercritical carbon dioxide. Journal of Applied Polymer Science, 2003, 88, 522-530.	2.6	14
52	Aqueous Suzuki Coupling Reactions of Basic Nitrogen-Containing Substrates in the Absence of Added Base and Ligand: Observation of High Yields under Acidic Conditions. Journal of Organic Chemistry, 2016, 81, 8520-8529.	3.2	14
53	Kinetics of a Diels—Alder Reaction in Supercritical Propane. ACS Symposium Series, 1995, , 166-178.	0.5	11
54	Pd-Catalyzed Suzuki coupling reactions of aryl halides containing basic nitrogen centers with arylboronic acids in water in the absence of added base. New Journal of Chemistry, 2017, 41, 15420-15432.	2.8	11

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55	Water at elevated temperatures (WET): reactant, catalyst, and solvent in the selective hydrolysis of protecting groups. Green Chemistry, 2014, 16, 2147-2155.	9.0	10
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73	Synthesis and Thermal Characterization of Poly(alkylene 2,6-anthracenedicarboxylate)s. Macromolecular Chemistry and Physics, 2001, 202, 1776-1781.	2.2	4
74	Ionic Liquids as Vehicles for Reactions and Separations. ACS Symposium Series, 2007, , 198-211.	0.5	4
75	The Oligomerization of Glucose Under Plausible Prebiotic Conditions. Origins of Life and Evolution of Biospheres, 2019, 49, 225-240.	1.9	4
76	Mechanistic Studies Related to the Thermal Chemistry of Simulated Nuclear Wastes That Mimic the Contents of a Hanford Site Double-Shell Tank. ACS Symposium Series, 1994, , 249-284.	0.5	3
77	Synthesis of 5-Substituted Tetrazoles: Reaction of Azide Salts with Organonitriles Catalyzed by Trialkylammonium Salts in Non-polar Media. Organic Process Research and Development, 0, , .	2.7	3
78	Effect of temperature modulations on TEMPO-mediated regioselective oxidation of unprotected carbohydrates and nucleosides. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2759-2765.	2.2	2
79	"110th Anniversary:―Interactions of Bis(1-methyl-1-phenylethyl) Peroxide with the Secondary Antioxidant Bis(octadecyloxycarbonylethyl) Sulfide: Mechanistic Studies Conducted in Dodecane as a Model System for Polyethylene. Industrial & Engineering Chemistry Research, 2019, 58, 14569-14578.	3.7	2
80	Sustainable Chemistry: Reversible reaction of CO2 with amines. French-Ukrainian Journal of Chemistry, 2016, 4, 14-22.	0.4	2
81	Reaction of Diphenyldiazomethane with Benzoic Acids in Batch and Continuous Flow. Journal of Chemical Education, 2021, 98, 469-477.	2.3	2
82	In Situ Alkylcarbonic Acid Catalysts Formed in CO2-Expanded Alcohols. ACS Symposium Series, 2009, , 131-144.	0.5	1
83	Radical-mediated graft modification of polyethylene models with vinyltrimethoxysilane: a theoretical analysis. Structural Chemistry, 2015, 26, 97-107.	2.0	1
84	Continuous Flow Chemistry: Reaction of Diphenyldiazomethane with <em>p</em> -Nitrobenzoic Acid. Journal of Visualized Experiments, 2017, , .	0.3	1
85	CO <sub>2</sub> Promoted Gel Formation of Hydrazine, Monomethylhydrazine, and Ethylenediamine: Structures and Properties. Industrial & Engineering Chemistry Research, 2019, 58, 22652-22662.	3.7	1
86	Organic acid shift reagents for the discrimination of carbohydrate isobars by ion mobility-mass spectrometry. Analyst, The, 2020, 145, 8008-8015.	3.5	1
87	Synthesis of Polycondensable Anthraquinone Dyes and ColouredNylon Fibres: I. Polymer International, 1996, 41, 391-394.	3.1	0
88	Synthesis of polycondensable anthraquinone dyes and coloured nylon fibres: II. Polymer International, 1997, 44, 134-136.	3.1	0
89	Synthesis of polycondensable anthraquinone dyes and coloured nylon fibres: III. Polymer International, 1997, 44, 461-464.	3.1	0
90	Viewing the Cybotactic Structure of Gas-Expanded Liquids. ACS Symposium Series, 2009, , 81-94.	0.5	0

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#	Article	IF	CITATIONS
91	Organic transformations mediated by macrocyclic multidentate ligands. , 0, , 157-174.		Ο

92 Organic transformations mediated by macrocyclic multidentate ligands. , 0, , 59-76.