

# Ester Marotta

## List of Publications by Year in descending order

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77  
papers

2,187  
citations

172207  
29  
h-index

243296  
44  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2786  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic digestion and mass spectrometry in the study of advanced glycation end products/peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 496-509.	1.2	150
2	Development of mitochondria-targeted derivatives of resveratrol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5594-5597.	1.0	105
3	Ester-Based Precursors to Increase the Bioavailability of Quercetin. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 241-253.	2.9	85
4	Comparison of Toluene Removal in Air at Atmospheric Conditions by Different Corona Discharges. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9386-9392.	4.6	76
5	Advanced Oxidation Process for Degradation of Aqueous Phenol in a Dielectric Barrier Discharge Reactor. <i>Plasma Processes and Polymers</i> , 2011, 8, 867-875.	1.6	73
6	Comparison of the rates of phenol advanced oxidation in deionized and tap water within a dielectric barrier discharge reactor. <i>Water Research</i> , 2012, 46, 6239-6246.	5.3	72
7	Atmospheric pressure photoionization mechanisms. 2. The case of benzene and toluene. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2423-2429.	0.7	67
8	Comparative performance assessment of plasma reactors for the treatment of PFOA; reactor design, kinetics, mineralization and energy yield. <i>Chemical Engineering Journal</i> , 2020, 382, 123031.	6.6	64
9	Determination of Quercetin and Resveratrol in Whole Blood—Implications for Bioavailability Studies. <i>Molecules</i> , 2010, 15, 6570-6579.	1.7	63
10	A Mitochondriotropic Derivative of Quercetin: A Strategy to Increase the Effectiveness of Polyphenols. <i>ChemBioChem</i> , 2008, 9, 2633-2642.	1.3	60
11	Biodegradation of Chlorsulfuron and Metsulfuron- <i>Methyl</i> by <i>Aspergillus niger</i> in Laboratory Conditions. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2003, 38, 737-746.	0.7	59
12	DC Corona Electric Discharges for Air Pollution Control. Part 1. Efficiency and Products of Hydrocarbon Processing. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5862-5868.	4.6	58
13	Atmospheric pressure photoionization mechanisms. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 841-849.	0.7	51
14	A mass spectrometry study of alkanes in air plasma at atmospheric pressure. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 697-707.	1.2	49
15	Regioselective O-Derivatization of Quercetin via Ester Intermediates. An Improved Synthesis of Rhamnetin and Development of a New Mitochondriotropic Derivative. <i>Molecules</i> , 2010, 15, 4722-4736.	1.7	48
16	Treatment of methyl orange by nitrogen non-thermal plasma in a corona reactor: The role of reactive nitrogen species. <i>Journal of Hazardous Materials</i> , 2015, 300, 754-764.	6.5	44
17	Impact of mitochondriotropic quercetin derivatives on mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 189-196.	0.5	43
18	Complete mineralization of organic pollutants in water by treatment with air non-thermal plasma. <i>Chemical Engineering Journal</i> , 2018, 337, 567-575.	6.6	43

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19	Soluble polyphenols: Synthesis and bioavailability of 3,4,5-tri(±-d-glucose-3-O-succinyl) resveratrol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6721-6724.	1.0	42
20	Synthesis, Solution-State and Solid-State Structural Characterization of Monocationic Nitrido Heterocomplexes [M(N)(DTC)(PNP)] <sup>+</sup> (M = <sup>99</sup> Tc, Re; DTC = Dithiocarbamate; PNP = Heterodiphosphane). <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1902-1913.	1.0	41
21	Products and mechanism of verapamil removal in water by air non-thermal plasma treatment. <i>Chemical Engineering Journal</i> , 2016, 292, 35-41.	6.6	41
22	Investigation on Plasma-Driven Methane Dry Reforming in a Self-Triggered Spark Reactor. <i>Plasma Processes and Polymers</i> , 2015, 12, 808-816.	1.6	38
23	Accurate mass measurements by Fourier transform mass spectrometry in the study of advanced glycation end products/peptides. <i>Journal of Mass Spectrometry</i> , 2003, 38, 196-205.	0.7	37
24	Oxygen Isotope ( <sup>18</sup> O <sub>2</sub> ) Evidence on the Role of Oxygen in the Plasma-Driven Catalysis of VOC Oxidation. <i>Catalysis Letters</i> , 2011, 141, 277-282.	1.4	33
25	Removal of persistent organic pollutants from water using a newly developed atmospheric plasma reactor. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700207.	1.6	33
26	Air non-thermal plasma treatment of the herbicides mesotrione and metolachlor in water. <i>Chemical Engineering Journal</i> , 2019, 372, 171-180.	6.6	32
27	On the formation of negative ions in atmospheric pressure photoionization conditions. <i>Journal of Mass Spectrometry</i> , 2003, 38, 1113-1115.	0.7	31
28	Ionic Reactions of Chlorinated Volatile Organic Compounds in Air Plasma at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2005, 2, 209-217.	1.6	31
29	Efficient solid-state microwave-promoted complexation of a mixed dioxo-diaza macrocycle with an alkali salt. Synthesis of a sodium ethyl 4-benzeneazophosphonate complex. <i>Polyhedron</i> , 2007, 26, 1663-1668.	1.0	31
30	Effect of vegetative filter strips on herbicide runoff under various types of rainfall. <i>Chemosphere</i> , 2012, 88, 113-119.	4.2	31
31	A new rapid procedure for simultaneous determination of glyphosate and AMPA in water at sub 1/4g/L level. <i>Journal of Chromatography A</i> , 2019, 1600, 65-72.	1.8	31
32	DC Corona Electric Discharges for Air Pollution Control, 2 <sup>+</sup> Ionic Intermediates and Mechanisms of Hydrocarbon Processing. <i>Plasma Processes and Polymers</i> , 2008, 5, 146-154.	1.6	30
33	Development and Testing of a Self-Triggered Spark Reactor for Plasma Driven Dry Reforming of Methane. <i>Plasma Processes and Polymers</i> , 2014, 11, 787-797.	1.6	30
34	ROS production and removal of the herbicide metolachlor by air non-thermal plasma produced by DBD, DC <sup>+</sup> and DC <sup>-</sup> discharges implemented within the same reactor. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 274002.	1.1	26
35	Absorption and Metabolism of Resveratrol Carboxyesters and Methanesulfonate by Explanted Rat Intestinal Segments. <i>Cellular Physiology and Biochemistry</i> , 2009, 24, 557-566.	1.1	24
36	On the photo-initiated isomerization of acetonitrile. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2846-2848.	0.7	21

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37	Aggregation Behavior of Octyl Viologen Di[bis(trifluoromethanesulfonyl)amide] in Nonpolar Solvents. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16566-16574.	1.2	21
38	Products and mechanisms of the oxidation of organic compounds in atmospheric air plasmas. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 124011.	1.3	21
39	Synthesis and Evaluation as Prodrugs of Hydrophilic Carbamate Ester Analogues of Resveratrol. <i>Molecular Pharmaceutics</i> , 2015, 12, 3441-3454.	2.3	21
40	Oxidation Mechanisms of CF <sub>2</sub> Br <sub>2</sub> and CH <sub>2</sub> Br <sub>2</sub> Induced by Air Nonthermal Plasma. <i>Environmental Science &amp; Technology</i> , 2013, 47, 542-548.	4.6	20
41	An atmospheric pressure chemical ionization study of the positive and negative ion chemistry of the hydrofluorocarbons 1,1-difluoroethane(HFC-152a) and 1,1,1,2-tetrafluoroethane(HFC-134a) and of perfluoro-n-hexane(FC-72) in air plasma at atmospheric pressure. <i>Journal of Mass Spectrometry</i> , 2004, 39, 791-801.	0.7	19
42	Redox Properties and Cytotoxicity of Synthetic Isomeric Mitochondriotropic Derivatives of the Natural Polyphenol Quercetin. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5577-5586.	1.2	16
43	Characterization and comparative evaluation of two atmospheric plasma sources for water treatment. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700130.	1.6	16
44	Atmospheric Pressure Non-thermal Plasma for Air Purification: Ions and Ionic Reactions Induced by dc+ Corona Discharges in Air Contaminated with Acetone and Methanol. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 1091-1107.	1.1	16
45	Efficiency, products and mechanisms of ethyl acetate oxidative degradation in air non-thermal plasma. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 295206.	1.3	14
46	Kinetics and Products of Air Plasma Induced Oxidation in Water of Imidacloprid and Thiamethoxam Treated Individually and in Mixture. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 545-559.	1.1	14
47	Oxidation of clofibrac acid in aqueous solution using a non-thermal plasma discharge or gamma radiation. <i>Chemosphere</i> , 2017, 187, 395-403.	4.2	13
48	Characterization of a plasma source for biomedical applications by electrical, optical, and chemical measurements. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800105.	1.6	13
49	A versatile prototype plasma reactor for water treatment supporting different discharge regimes. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 274001.	1.3	13
50	Positive ion chemistry of esters of carboxylic acids in air plasma at atmospheric pressure. <i>Journal of Mass Spectrometry</i> , 2005, 40, 1583-1589.	0.7	12
51	Positive and negative ion chemistry of the anesthetic halothane (1-bromo-1-chloro-2,2,2-trifluoroethane) in air plasma at atmospheric pressure. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 391-396.	0.7	12
52	Comment on "Water-Soluble Fluorescent Probe with Dual Mitochondria/Lysosome Targetability for Selective Superoxide Detection in Live Cells and in Zebrafish Embryos". <i>ACS Sensors</i> , 2019, 4, 3080-3083.	4.0	11
53	The inside and outside protonation of a 15-membered O <sub>2</sub> N <sub>2</sub> -macrocyclic. Synthesis and structural characterization of the protonated ligand salts. <i>Polyhedron</i> , 2005, 24, 97-111.	1.0	10
54	Nitrogen-containing organic products from the treatment of liquid toluene with plasma-activated N <sub>2</sub> gas. <i>Plasma Processes and Polymers</i> , 2021, 18, 2100012.	1.6	10

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55	Atmospheric plasma-based approaches for the degradation of dimethyl phthalate (DMP) in water. <i>Journal of Environmental Management</i> , 2022, 301, 113885.	3.8	10
56	Electrospray ionization mass spectrometry in the structural characterization of a mixed nitrido-Tc heterocomplex of interest for myocardial imaging. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1225-1228.	0.7	9
57	Chemical and Antimicrobial Effects of Air Non-Thermal Plasma Processing of Fresh Apple Juice with Focus on Safety Aspects. <i>Foods</i> , 2021, 10, 2055.	1.9	9
58	Products, rate constants and mechanisms of gas-phase reactions of CX <sub>3</sub> <sup>+</sup> , CX <sub>2</sub> <sup>+</sup> , CX <sup>+</sup> (X = F and/or Cl) and Cl <sup>+</sup> with 1,1,1- and 1,1,2-trichlorotrifluoroethane. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1195-1202.	0.7	8
59	ESI/MS <sub>n</sub> in the structural characterisation of some nitrido-Re heterocomplexes. <i>International Journal of Mass Spectrometry</i> , 2004, 232, 239-247.	0.7	8
60	Novel CFCs-substitutes recommended by EPA (hydrofluorocarbon-245fa and hydrofluoroether-7100): Ion chemistry in air plasma and reactions with atmospheric ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1081-1092.	1.2	8
61	Structure elucidation of the dye Acid Red 131: complete <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N NMR data assignment. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 523-528.	1.1	7
62	Air non-thermal plasma treatment of Irgarol 1051 deposited on TiO <sub>2</sub> . <i>Chemosphere</i> , 2018, 210, 653-661.	4.2	7
63	Application of Fluorescence-Based Probes for the Determination of Superoxide in Water Treated with Air Non-thermal Plasma. <i>ACS Sensors</i> , 2020, 5, 2866-2875.	4.0	7
64	Spectroscopic study of self-pulsing discharge with liquid electrode. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	7
65	Electrospray Mass Spectrometry of a Series of Mixed Nitrido <sup>99g</sup> Tc-Heterocomplexes Conjugated with Bio-Active Molecules. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 605-611.	0.5	6
66	Dissipation of terbuthylazine, metolachlor, and mesotrione in soils with contrasting texture. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2018, 53, 661-668.	0.7	6
67	Pollutant Degradation in Gas Streams by means of Non-Thermal Plasmas. , 0, , .		5
68	Indirect Inactivation of <i>Candida guilliermondii</i> by Using a Plasma Synthetic Jet Actuator: Effect of Advected Charged Particles. <i>Plasma Medicine</i> , 2018, 8, 255-268.	0.2	5
69	Isomerization and dissociation of C <sub>2</sub> X <sub>5</sub> <sup>+</sup> and C <sub>2</sub> X <sub>4</sub> <sup>+</sup> ions (X = Cl, F) from chlorofluoroethanes in an ion trap mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1280-1286.	0.7	4
70	Heterogeneity and Standardization of Phase II Metabolism in Cultured Cells. <i>Cellular Physiology and Biochemistry</i> , 2009, 23, 425-430.	1.1	4
71	Radicals and Ions Formed in Plasma-Treated Organic Solvents: A Mechanistic Investigation to Rationalize the Enhancement of Electrosprinnability of Polycaprolactone. <i>Frontiers in Chemistry</i> , 2019, 7, 344.	1.8	4
72	Electrospray ionization in the characterization of mer and fac isomeric forms of [Re(N)Cl <sub>2</sub> (POP)] (POP = ?bis[(2-diphenylphosphino)ethyl]ether). <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2046-2049.	0.7	3

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73	Determination of Atomic Oxygen in Atmospheric Plasma from Oxygen Isotope Exchange. Plasma Processes and Polymers, 2011, 8, 859-866.	1.6	2
74	Papers by Selected Lecturers at the 11th International Symposium on Non-thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy (ISNTPT 11). Plasma Chemistry and Plasma Processing, 2019, 39, 519-522.	1.1	2
75	Gas-phase positive ion chemistry of 1-bromo-1-chloro-2,2,2-trifluoroethane (halothane) upon electron ionization within an ion trap mass spectrometer. Rapid Communications in Mass Spectrometry, 2005, 19, 1447-1453.	0.7	1
76	6th Central European Symposium on Plasma Chemistry (CESPC-6). EPJ Applied Physics, 2016, 75, 24701.	0.3	0
77	Chemistry of Organic Pollutants in Atmospheric Plasmas. , 0, , 79-92.		0