

# Margarita Parra Álvarez

## List of Publications by Year in descending order

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94  
papers

3,642  
citations

201674

27  
h-index

138484

58  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4289  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical chemosensors and reagents to detect explosives. <i>Chemical Society Reviews</i> , 2012, 41, 1261-1296.	38.1	1,019
2	A new selective fluorogenic probe for trivalent cations. <i>Chemical Communications</i> , 2012, 48, 3000.	4.1	246
3	New Synthetic Methods to 2-Pyridone Rings. <i>Current Organic Chemistry</i> , 2005, 9, 1757-1779.	1.6	190
4	Chromogenic and fluorogenic reagents for chemical warfare nerve agents' detection. <i>Chemical Communications</i> , 2007, , 4839.	4.1	189
5	Chromogenic detection of nerve agent mimics. <i>Chemical Communications</i> , 2008, , 6002.	4.1	98
6	Microbial oxidation in synthesis: preparation of myo-inositol phosphates and related cyclitol derivatives from benzene. <i>Tetrahedron</i> , 1990, 46, 4995-5026.	1.9	90
7	Chromogenic, Specific Detection of the Nerve-Agent Mimic DCNP (a Tabun Mimic). <i>Chemistry - A European Journal</i> , 2011, 17, 6931-6934.	3.3	89
8	Surfactant-assisted chromogenic sensing of cyanide in water. <i>New Journal of Chemistry</i> , 2009, 33, 1641.	2.8	64
9	A Molecular Probe for the Highly Selective Chromogenic Detection of DFP, a Mimic of Sarin and Soman Nerve Agents. <i>Chemistry - A European Journal</i> , 2011, 17, 11994-11997.	3.3	61
10	Selective and sensitive chromogenic detection of cyanide and HCN in solution and in gas phase. <i>Chemical Communications</i> , 2013, 49, 5669.	4.1	60
11	Recent Developments in $\gamma$ -Lactone Synthesis. <i>Mini-Reviews in Organic Chemistry</i> , 2009, 6, 345-358.	1.3	58
12	Discrimination of nerve gases mimics and other organophosphorous derivatives in gas phase using a colorimetric probe array. <i>Chemical Communications</i> , 2012, 48, 10105.	4.1	51
13	Chromo-Fluorogenic Detection of Nerve-Agent Mimics Using Triggered Cyclization Reactions in Push-Pull Dyes. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1573-1585.	3.3	49
14	Fluorogenic detection of Tetryl and TNT explosives using nanoscopic-capped mesoporous hybrid materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3561.	10.3	48
15	A new phenanthrene-based bis-oxime chemosensor for Fe(III) and Cr(III) discrimination. <i>Tetrahedron</i> , 2012, 68, 4882-4887.	1.9	46
16	Chromogenic Detection of Nerve Agent Mimics by Mass Transport Control at the Surface of Bifunctionalized Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5945-5948.	13.8	45
17	Hg <sup>2+</sup> and Cu <sup>2+</sup> selective detection using a dual channel receptor based on thiopyrylium scaffoldings. <i>Tetrahedron Letters</i> , 2009, 50, 3885-3888.	1.4	44
18	Microbial oxidation in synthesis: Preparation of 6-deoxy cyclitol analogues of myo-inositol 1,4,5-trisphosphate from benzene. <i>Tetrahedron Letters</i> , 1989, 30, 3557-3560.	1.4	43

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19	Design of Enzyme-Mediated Controlled Release Systems Based on Silica Mesoporous Supports Capped with Ester-Glycol Groups. <i>Langmuir</i> , 2012, 28, 14766-14776.	3.5	43
20	Selective opening of nanoscopic capped mesoporous inorganic materials with nerve agent simulants; an application to design chromo-fluorogenic probes. <i>Chemical Communications</i> , 2011, 47, 8313.	4.1	40
21	Amidase-responsive controlled release of antitumoral drug into intracellular media using gluconamide-capped mesoporous silica nanoparticles. <i>Nanoscale</i> , 2012, 4, 7237.	5.6	39
22	Smart gated magnetic silica mesoporous particles for targeted colon drug delivery: New approaches for inflammatory bowel diseases treatment. <i>Journal of Controlled Release</i> , 2018, 281, 58-69.	9.9	39
23	Selective Detection of Nerve Agent Simulants by Using Triarylmethanol-Based Chromogenic Chemodosimeters. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4937-4946.	2.4	38
24	Highly Selective Fluorescence Detection of Hydrogen Sulfide by Using an Anthracene-Functionalized Cyclam-Cu <sup>II</sup> Complex. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 41-45.	2.0	37
25	Alkylation of lithium dienediolates of butenoic acids. Regioselectivity effects of structure and leaving group of the alkylating agent. <i>Tetrahedron</i> , 1998, 54, 4357-4366.	1.9	36
26	A New Synthetic Method to 2-Pyridones. <i>Synthesis</i> , 2000, 2000, 273-280.	2.3	33
27	Neutral 1,3-Diindolylureas for Nerve Agent Remediation. <i>Chemistry - A European Journal</i> , 2013, 19, 1586-1590.	3.3	33
28	Functionalized Gold Nanoparticles as an Approach to the Direct Colorimetric Detection of DCNP Nerve Agent Simulant. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4770-4779.	2.4	29
29	Nerve agent simulant detection by using chromogenic triaryl methane cation probes. <i>Tetrahedron</i> , 2012, 68, 8612-8616.	1.9	28
30	A Chromogenic Probe for the Selective Recognition of Sarin and Soman Mimic DFP. <i>ChemistryOpen</i> , 2014, 3, 142-145.	1.9	28
31	Selective colorimetric NO(g) detection based on the use of modified gold nanoparticles using click chemistry. <i>Chemical Communications</i> , 2015, 51, 3077-3079.	4.1	27
32	Boolean operations mediated by an ion-pair receptor of a multi-readout molecular logic gate. <i>Chemical Communications</i> , 2013, 49, 11056.	4.1	25
33	Binding and Fluorescent Sensing of Dicarboxylates by a Bis(calix[4]pyrrole)-Substituted BODIPY Dye. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 1515-1520.	2.4	25
34	Selective chromo-fluorogenic detection of trivalent cations in aqueous environments using a dehydration reaction. <i>New Journal of Chemistry</i> , 2016, 40, 9042-9045.	2.8	25
35	Detection and discrimination of organophosphorus pesticides in water by using a colorimetric probe array. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 727-731.	7.8	22
36	Azide and sulfonylazide functionalized fluorophores for the selective and sensitive detection of hydrogen sulfide. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 987-994.	7.8	21

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37	A new chromo-fluorogenic probe based on BODIPY for NO <sub>2</sub> detection in air. <i>Chemical Communications</i> , 2015, 51, 1725-1727.	4.1	21
38	Dienediolates from unsaturated carboxylic acids. Reaction with para-substituted benzaldehydes. Electronic effects on regioselectivity. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1989, , 327.	0.9	20
39	Enantioselective $\alpha$ -alkylation of unsaturated carboxylic acids using a chiral lithium amide. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 915-921.	1.8	20
40	Experimental and theoretical investigations for the tandem alkylation-isomerization reactions between unsaturated carboxylic acids and allyl halides. <i>Tetrahedron</i> , 2003, 59, 6233-6239.	1.9	20
41	Dienediolates of Carboxylic Acids in Synthesis. Recent Advances.. <i>Current Organic Chemistry</i> , 2002, 6, 283-302.	1.6	20
42	Highly selective and sensitive chromo-fluorogenic detection of the Tetryl explosive using functional silica nanoparticles. <i>Chemical Communications</i> , 2011, 47, 11885.	4.1	19
43	A new fluorescent $\alpha$ -chemodosimeter for the detection of hydrogen sulfide in water and living cells. <i>RSC Advances</i> , 2013, 3, 25690.	3.6	19
44	A Chemosensor Bearing Sulfonyl Azide Moieties for Selective Chromo-fluorogenic Hydrogen Sulfide Recognition in Aqueous Media and in Living Cells. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1848-1854.	2.4	19
45	A Boron Dipyrromethene (BODIPY)-Based Cu <sup>II</sup> -Bipyridine Complex for Highly Selective NO Detection. <i>Chemistry - A European Journal</i> , 2015, 21, 15486-15490.	3.3	19
46	Lithium enediolates and dienediolates of carboxylic acids in synthesis: Alkylation with secondary halides. <i>Tetrahedron</i> , 1998, 54, 15305-15320.	1.9	18
47	New conditions for the generation of dianions of carboxylic acids. <i>Tetrahedron Letters</i> , 1998, 39, 5443-5446.	1.4	18
48	NO <sub>2</sub> -controlled cargo delivery from gated silica mesoporous nanoparticles. <i>Chemical Communications</i> , 2017, 53, 585-588.	4.1	16
49	<sup>13</sup> C NMR studies of dianions of unsaturated carboxylic acids. <i>Tetrahedron</i> , 1994, 50, 5109-5118.	1.9	15
50	Trienediolates of hexadienoic acids in synthesis. Addition to unsaturated ketones. A convergent approach to the synthesis of retinoic acids. <i>Tetrahedron</i> , 1995, 51, 3915-3928.	1.9	15
51	A Convenient Generation of Acetic Acid Dianion. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1386-1388.	2.4	14
52	Enantioselective sensing of dicarboxylates. Influence of the stoichiometry of the complexes on the sensing mechanism. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1468-1471.	1.8	14
53	Triarylcarbinol functionalized gold nanoparticles for the colorimetric detection of nerve agent simulants. <i>Tetrahedron Letters</i> , 2014, 55, 3093-3096.	1.4	14
54	Self-immolative Linkers as Caps for the Design of Gated Silica Mesoporous Supports. <i>Chemistry - A European Journal</i> , 2016, 22, 14126-14130.	3.3	14

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55	Sex Pheromone of Chilo Suppressalis: Efficient Syntheses of (Z)-11-Hexadecenal, (Z)-13-Octadecenal And (Z)-9-Hexadecenal. Synthetic Communications, 1996, 26, 2329-2340.	2.1	13
56	A Chalcone-Based Highly Selective and Sensitive Chromofluorogenic Probe for Trivalent Metal Cations. ChemPlusChem, 2015, 80, 800-804.	2.8	12
57	Efficacy of budesonide-loaded mesoporous silica microparticles capped with a bulky azo derivative in rats with TNBS-induced colitis. International Journal of Pharmaceutics, 2019, 561, 93-101.	5.2	12
58	A Study of the Thorpe-Ziegler Reaction in Very Mild Conditions. Synthetic Communications, 1984, 14, 967-972.	2.1	11
59	Regiocontrol in Alkylation of Lithium Dienediolates of Unsaturated Carboxylic Acids. Synlett, 2001, 2001, 0156-0159.	1.8	11
60	Efficient Addition of Acid Enediolates to Epoxides. European Journal of Organic Chemistry, 2004, 2004, 2160-2165.	2.4	11
61	Aryl carbinols as nerve agent probes. Influence of the conjugation on the sensing properties. New Journal of Chemistry, 2012, 36, 1485.	2.8	11
62	3-Formyl-BODIPY Phenylhydrazone as a Chromofluorogenic Probe for Selective Detection of NO <sub>2</sub> (g). Chemistry - A European Journal, 2016, 22, 8448-8451.	3.3	11
63	Functional Magnetic Mesoporous Silica Microparticles Capped with an Azo-Derivative: A Promising Colon Drug Delivery Device. Molecules, 2018, 23, 375.	3.8	11
64	Trienediolates of hexadienoic acids in synthesis. synthesis of retinoic and nor-retinoic acids.. Tetrahedron, 1993, 49, 6089-6100.	1.9	10
65	Fluorescent Cyclohexyl-Based Chemosensors for Selective Sensing of TMA Malonate in DMSO/Water. European Journal of Organic Chemistry, 2009, 2009, 3673-3677.	2.4	10
66	A new strategy for the synthesis of highly functionalised fluorinated compounds by reaction of lithium dianions of carboxylic acids with perfluoroketene dithioacetals. Tetrahedron, 2005, 61, 4395-4402.	1.9	9
67	Inversion of selectivity in anion recognition with conformationally blocked calix[4]pyrroles. Organic and Biomolecular Chemistry, 2012, 10, 8445.	2.8	9
68	A New Simple Chromofluorogenic Probe for NO <sub>2</sub> Detection in Air. Chemistry - A European Journal, 2015, 21, 8720-8722.	3.3	9
69	2,4-dinitrophenyl ether-containing chemodosimeters for the selective and sensitive <i>in vitro</i> and <i>in vivo</i> detection of hydrogen sulfide. Supramolecular Chemistry, 2015, 27, 244-254.	1.2	9
70	A simple synthesis of $\beta$ -aminoacids. Tetrahedron Letters, 2007, 48, 3451-3453.	1.4	8
71	3,3-Disubstitued 2,2-Bipyridines as Carboxylate Receptors: Conformational Regulation of the Bipyridine Moiety. European Journal of Organic Chemistry, 2008, 2008, 1079-1084.	2.4	8
72	Selective and Sensitive Chromogenic Detection of Trivalent Metal Cations in Water. Bulletin of the Chemical Society of Japan, 2016, 89, 498-500.	3.2	8

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73	Enediolates and dienediolates of carboxylic acids in synthesis. Synthesis of $\hat{1}^2, \hat{1}^3$ -epoxyacids from $\hat{1}^{\pm}$ -chloroketones. Tetrahedron Letters, 1998, 39, 1055-1058.	1.4	7
74	5,5- $\hat{2}$ -Bis-vanillin derivatives as discriminating sensors for trivalent cations. Tetrahedron Letters, 2015, 56, 3988-3991.	1.4	7
75	Towards the fluorogenic detection of peroxide explosives through host-guest chemistry. Royal Society Open Science, 2018, 5, 171787.	2.4	7
76	Selective Recognition and Sensing of Succinate vs. Other Aliphatic Dicarboxylates by Thiourea-Functionalized Gold Nanoparticles. ChemistrySelect, 2016, 1, 1057-1060.	1.5	6
77	Mesoporous silica microparticles gated with a bulky azo derivative for the controlled release of dyes/drugs in colon. Royal Society Open Science, 2018, 5, 180873.	2.4	6
78	An Efficient Synthesis of $\hat{1}^3$ -Aminoacids and Attempts to Drive Its Enantioselectivity. Molecules, 2008, 13, 716-728.	3.8	4
79	Unusual Regioselectivity in the Opening of Epoxides by Carboxylic Acid Enediolates. Molecules, 2008, 13, 1303-1311.	3.8	4
80	STUDIES ON BICYCLO[3.3.1]NONANES FOR SYNTHESIS OF CYCLOOCTENES. Synthetic Communications, 2002, 32, 1829-1839.	2.1	3
81	Reaction of lithium enediolates with perfluoroketene dithioacetals. Synthesis of $\hat{1}^{\pm}$ -trifluoromethyl $\hat{1}^3$ -dicarboxylic acid derivatives. Tetrahedron Letters, 2004, 45, 8315-8317.	1.4	3
82	Complexation of $\hat{1}^{\pm}$ , $\hat{1}^{\circ}$ -dicarboxylates by 3,3-bis(5-phenyl-1,4-dioxo-2,3,5-triaza)-2,2-bipyridine. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2008, 62, 203-207.	1.6	3
83	Not always what closes best opens better: mesoporous nanoparticles capped with organic gates. Science and Technology of Advanced Materials, 2019, 20, 699-709.	6.1	3
84	Addition of dianions of carboxylic acids to imines. Influence of the acid in the outcome of the reaction. Arkivoc, 2009, 2009, 172-184.	0.5	3
85	Unexplored Nucleophilic Ring Opening of Aziridines. Molecules, 2010, 15, 9135-9144.	3.8	2
86	Biphenyl derivatives containing trimethylsilyl benzyl ether or oxime groups as probes for NO <sub>2</sub> detection. RSC Advances, 2016, 6, 43719-43723.	3.6	2
87	Peptide-Capped Mesoporous Nanoparticles: Toward a more Efficient Internalization of Alendronate. ChemistrySelect, 2020, 5, 3618-3625.	1.5	2
88	Fluorescein-Based Thiourea Derivatives as Fluorogenic Sensors for Mono and Dicarboxylates. Sensor Letters, 2010, 8, 818-823.	0.4	2
89	A New Highly Selective Chromogenic and Fluorogenic Chemosensor for Copper (II). Letters in Organic Chemistry, 2018, 15, 659-664.	0.5	2
90	New Synthesis of ( $\hat{A}^{\pm}$ )-Sitophilate Using Carboxylic Acid Dianion Methodology - A Stereoselectivity Study. Synthesis, 2005, 2005, 3451-3455.	2.3	1

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91	A Simple System Based on a Thiourea-Modified Fluorescein for $\alpha$ -Amino Acid Discrimination. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6597-6601.	2.4	1
92	New approach to condensed pyrid-2-ones. <i>Arkivoc</i> , 2003, 2002, 80-89.	0.5	1
93	Carbanion Chemistry from Carboxylic Acids: a Special Issue in Honor of Professor Ramón Mestres on his 65th Birthday.. <i>Molecules</i> , 2004, 9, 264-265.	3.8	0
94	A New Approach to the Synthesis of $\beta^2$ -Amino Acids. <i>Synthesis</i> , 2006, 2006, 3092-3098.	2.3	0