

# Lluisa Perez-Garcia

## List of Publications by Year in descending order

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107  
papers

3,517  
citations

185998

28  
h-index

149479

56  
g-index

111  
all docs

111  
docs citations

111  
times ranked

4441  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous resolution under supramolecular control. <i>Chemical Society Reviews</i> , 2002, 31, 342-356.	18.7	517
2	Spontaneous resolution, whence and whither: from enantiomorphic solids to chiral liquid crystals, monolayers and macro- and supra-molecular polymers and assemblies. <i>Chemical Society Reviews</i> , 2007, 36, 941-967.	18.7	414
3	Molecular Meccano. 4. The Self-Assembly of [2]Catenanes Incorporating Photoactive $\pi$ -Extended Systems. <i>Journal of the American Chemical Society</i> , 1995, 117, 11171-11197.	6.6	168
4	A Switchable Hybrid [2]-Catenane Based on Transition Metal Complexation and $\pi$ -Electron Donor $\pi$ -Acceptor Interactions. <i>Journal of the American Chemical Society</i> , 1996, 118, 3905-3913.	6.6	112
5	Hydrogen bonded driven anion binding by dicationic [14]imidazoliophanes. <i>Chemical Communications</i> , 1999, , 295-296.	2.2	112
6	Photosensitizer-gold nanoparticle conjugates for photodynamic therapy of cancer. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1534-1552.	1.6	101
7	An Advantageous Synthesis of 2-Substituted Benzimidazoles Using Polyphosphoric Acid. 2-(Pyridyl)-1H-benzimidazoles, 1-Alkyl-(1H-benzimidazol-2-yl)pyridinium Salts, their Homologues and Vinylogues. <i>Synthesis</i> , 1992, 1992, 395-398.	1.2	92
8	Gemini Imidazolium Amphiphiles for the Synthesis, Stabilization, and Drug Delivery from Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 2368-2381.	1.6	79
9	Iron oxide nanoparticles functionalized with novel hydrophobic and hydrophilic porphyrins as potential agents for photodynamic therapy. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 154-165.	5.0	76
10	Water soluble, multifunctional antibody-porphyrin gold nanoparticles for targeted photodynamic therapy. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 100-110.	5.0	74
11	Diazapyrenium-containing catenanes and rotaxanes. <i>New Journal of Chemistry</i> , 1999, 23, 587-602.	1.4	69
12	Topology in molecules inspired, seen and represented. <i>Chemical Society Reviews</i> , 2009, 38, 1562.	18.7	63
13	The self assembly of controllable [2]catenanes. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 177-180.	2.0	60
14	Cell Death Mechanisms in Tumoral and Non-Tumoral Human Cell Lines Triggered by Photodynamic Treatments: Apoptosis, Necrosis and Parthanatos. <i>Scientific Reports</i> , 2017, 7, 41340.	1.6	60
15	Quantitative Evaluation of the Chloride Template Effect in the Formation of Dicationic [14]Imidazoliophanes. <i>Journal of Organic Chemistry</i> , 2002, 67, 8463-8468.	1.7	57
16	Anion Template-Directed Synthesis of Dicationic [14]Imidazoliophanes. <i>Organic Letters</i> , 1999, 1, 1035-1038.	2.4	54
17	Supramolecular gels based on a gemini imidazolium amphiphile as molecular material for drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5419.	2.9	52
18	Gut and microbial resveratrol metabolite profiling after moderate long-term consumption of red wine versus dealcoholized red wine in humans by an optimized ultra-high-pressure liquid chromatography tandem mass spectrometry method. <i>Journal of Chromatography A</i> , 2012, 1265, 105-113.	1.8	50

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19	Highly Conductive Single-Molecule Wires with Controlled Orientation by Coordination of Metalloporphyrins. <i>Nano Letters</i> , 2014, 14, 4751-4756.	4.5	48
20	Controlling Translational Isomerism in [2]Catenanes. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 571-574.	4.4	44
21	Kinetic Selection in the Template-Directed Self-Assembly of [2]Catenanes. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2378-2380.	4.4	42
22	Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanide-Doped Self-Assembled Polymer Monolayers. <i>Advanced Functional Materials</i> , 2016, 26, 200-209.	7.8	42
23	A New Porphyrin for the Preparation of Functionalized Water-Soluble Gold Nanoparticles with Low Intrinsic Toxicity. <i>ChemistryOpen</i> , 2015, 4, 127-136.	0.9	36
24	Imidazolium-Based [14]Heterophanes as Models for Anion Recognition. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3988-3996.	1.2	33
25	Amphiphilic gemini pyridinium-mediated incorporation of Zn(II)meso-tetrakis(4-carboxyphenyl)porphyrin into water-soluble gold nanoparticles for photodynamic therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 602-609.	2.5	32
26	Nanocarriers from dicationic bis-imidazolium amphiphiles and their interaction with anionic drugs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4963.	2.9	31
27	Enhanced vitamin C skin permeation from supramolecular hydrogels, illustrated using in situ ToF-SIMS 3D chemical profiling. <i>International Journal of Pharmaceutics</i> , 2019, 563, 21-29.	2.6	31
28	Synthesis and Biological Activity of Gold(I) N-Heterocyclic Carbene Complexes with Long Aliphatic Side Chains. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6117-6125.	1.0	29
29	Nondegenerate $\pi$ -Donor/ $\pi$ -Acceptor [2]Catenanes Containing Proton-Ionizable 1H-1,2,4-Triazole Subunits: Synthesis and Spontaneous Resolution. <i>Chemistry - A European Journal</i> , 2007, 13, 3964-3979.	1.7	28
30	Towards a Tunable Tautomeric Switch in Azobenzene Biomimetics: Implications for the Binding Affinity of 2-(4-Hydroxyphenylazo)benzoic Acid to Streptavidin. <i>Chemistry - A European Journal</i> , 2008, 14, 2277-2285.	1.7	26
31	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled In Situ. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7101-7105.	7.2	26
32	Non-classical [14]metaheterophanes containing betaine units. Synthesis, NMR spectroscopy and X-ray crystallography. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1239-1240.	2.0	25
33			

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37	Light-controlled micron-scale molecular motion. <i>Nature Chemistry</i> , 2021, 13, 1200-1206.	6.6	24
38	Novel Bis-betaines and Betaines within [14]meta-Heterophane Frameworks. <i>Chemistry - A European Journal</i> , 2002, 8, 474-484.	1.7	23
39	Barcode tagging of human oocytes and embryos to prevent mix-ups in assisted reproduction technologies. <i>Human Reproduction</i> , 2014, 29, 18-28.	0.4	22
40	Macrocyclic imidazolium-based amphiphiles for the synthesis of gold nanoparticles and delivery of anionic drugs. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 132-139.	5.0	22
41	Gemini pyridinium amphiphiles for the synthesis and stabilization of gold nanoparticles for drug delivery. <i>Journal of Colloid and Interface Science</i> , 2017, 502, 172-183.	5.0	22
42	Heterocyclic betaines. 13. Synthesis and electronic and molecular structures of methylenepyridinium and methyleneimidazolium azolate inner salts. <i>Journal of Organic Chemistry</i> , 1992, 57, 4829-4834.	1.7	20
43	Water-soluble gold nanoparticles based on imidazolium gemini amphiphiles incorporating piroxicam. <i>RSC Advances</i> , 2014, 4, 9279.	1.7	20
44	Bottom-up assembly of a surface-anchored supramolecular rotor enabled using a mixed self-assembled monolayer and pre-complexed components. <i>Chemical Communications</i> , 2014, 50, 82-84.	2.2	20
45	Suspended Planar Array Chips for Molecular Multiplexing at the Microscale. <i>Advanced Materials</i> , 2016, 28, 1449-1454.	11.1	20
46	Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. <i>Advanced Optical Materials</i> , 2020, 8, 2000312.	3.6	20
47	Direct embryo tagging and identification system by attachment of biofunctionalized polysilicon barcodes to the zona pellucida of mouse embryos. <i>Human Reproduction</i> , 2013, 28, 1519-1527.	0.4	19
48	Nanostructured materials for photodynamic therapy: synthesis, characterization and in vitro activity. <i>RSC Advances</i> , 2017, 7, 16963-16976.	1.7	19
49	Cationic Supramolecular Hydrogels for Overcoming the Skin Barrier in Drug Delivery. <i>ChemistryOpen</i> , 2017, 6, 585-598.	0.9	17
50	Self-assembly in chemical synthesis. <i>Supramolecular Chemistry</i> , 1995, 6, 11-27.	1.5	16
51	Optimized immobilization of lectins using self-assembled monolayers on polysilicon encoded materials for cell tagging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 104-113.	2.5	16
52	Synthesis and in vitro phototoxicity of multifunctional Zn(II)meso-tetrakis(4-carboxyphenyl)porphyrin-coated gold nanoparticles assembled via axial coordination with imidazole ligands. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 81-90.	5.0	16
53	Wireless Nanobioelectronics for Electrical Intracellular Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 6397-6408.	2.4	16
54	Modulating the biological function of protein by tailoring the adsorption orientation on nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 150-161.	5.0	16

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55	Spontaneous resolution in a family of [2]catenanes containing proton-ionisable 1H-1,2,4-triazole subunits. <i>Mendeleev Communications</i> , 2004, 14, 233-235.	0.6	15
56	Efficient Biofunctionalization of Polysilicon Barcodes for Adhesion to the Zona Pellucida of Mouse Embryos. <i>Bioconjugate Chemistry</i> , 2012, 23, 2392-2402.	1.8	15
57	Kontrolle der Translationsisomerie in [2] Catenanen. <i>Angewandte Chemie</i> , 1995, 107, 607-610.	1.6	14
58	Spontaneous resolution of a non-degenerate donor-acceptor [2]catenane. <i>Mendeleev Communications</i> , 2003, 13, 100-102.	0.6	14
59	Proton ionizable 1H-1,2,4-triazole $\pi$ -electron deficient cyclophanes as hosts and in [2]catenanes. <i>New Journal of Chemistry</i> , 2009, 33, 300-317.	1.4	14
60	Macrocyclic ionic liquid crystals. <i>New Journal of Chemistry</i> , 2012, 36, 558-561.	1.4	14
61	Au( $\mu$ -N-heterocyclic carbenes from bis-imidazolium amphiphiles: synthesis, cytotoxicity and incorporation onto gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 2202-2209.	1.7	14
62	Drug-Loaded Supramolecular Gels Prepared in a Microfluidic Platform: Distinctive Rheology and Delivery through Controlled Far-from-Equilibrium Mixing. <i>ACS Omega</i> , 2017, 2, 8849-8858.	1.6	14
63	Heterocyclic Betaines. XXII. Azinium(Azolium)4-Nitrobenzimidazolates Inner Salts and Their Derivatives with Several Interannular Spacers. Synthesis, Characterization and Antitrichomonal Activity.. <i>Chemical and Pharmaceutical Bulletin</i> , 1995, 43, 493-498.	0.6	13
64	Kinetische Selektion bei der templatgesteuerten Selbstorganisation von [2]Catenanen. <i>Angewandte Chemie</i> , 1995, 107, 2569-2572.	1.6	13
65	Highly Anisotropic Suspended Planar Array Chips with Multidimensional Submicrometric Biomolecular Patterns. <i>Advanced Functional Materials</i> , 2017, 27, 1605912.	7.8	13
66	Quantification of energy of activation to supramolecular nanofibre formation reveals enthalpic and entropic effects and morphological consequence. <i>Chemical Science</i> , 2019, 10, 10256-10266.	3.7	12
67	Multiply biphenyl substituted zinc(II) porphyrin and phthalocyanine as components for molecular materials. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 1293-1302.	0.4	11
68	Enhancing Singlet Oxygen Generation by Self-Assembly of a Porphyrin Entrapped in Supramolecular Fibers. <i>Cell Reports Physical Science</i> , 2020, 1, 100030.	2.8	11
69	Synthesis and antitrichomonal activity of azinium (azolium) 4-nitrobenzimidazolates betaines and their derivatives. <i>European Journal of Medicinal Chemistry</i> , 1992, 27, 171-176.	2.6	10
70	Heterocyclic Betaines. XVI. Properties of (E)-1-Alkyl(or) Tetraalkylammonium 4-(2-(1H-benzimidazol-2-yl)ethyl)pyridinium salts. <i>Journal of Heterocyclic Chemistry</i> , 1993, 41, 614-616.	0.6	10
71	Design of unusual captodative methylene substrates: 1-Alkyl-4-(3-(azolylmethyl)pyridinium salts 1. <i>Tetrahedron</i> , 1995, 51, 13365-13378.	1.0	10
72	Electrochemical preparation and characterization of magnetic core-shell nanowires for biomedical applications. <i>Electrochemistry Communications</i> , 2016, 63, 18-21.	2.3	10

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73	Multifunctional Serine Protease Inhibitor-Coated Water-Soluble Gold Nanoparticles as a Novel Targeted Approach for the Treatment of Inflammatory Skin Diseases. <i>Bioconjugate Chemistry</i> , 2018, 29, 1060-1072.	1.8	10
74	An imidazolium-based supramolecular gelator enhancing interlayer adhesion in 3D printed dual network hydrogels. <i>Materials and Design</i> , 2021, 206, 109792.	3.3	10
75	Heterocyclic Betaines. Novel Ethyleneimidazolium Benzimidazolate Inner Salts. Synthesis, Characterization, and Transformation into 2-Vinyl-1H-benzimidazoles. <i>Chemistry Letters</i> , 1992, 21, 2357-2360.	0.7	9
76	Unconventional acceptor and donor functional groups linked by a captodative spacer. <i>Tetrahedron</i> , 1996, 52, 15197-15208.	1.0	9
77	In situ template synthesis of gold nanoparticles using a bis-imidazolium amphiphile-based hydrogel. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 53-58.	5.0	9
78	Polysilicon-chromium-gold intracellular chips for multi-functional biomedical applications. <i>Nanoscale</i> , 2016, 8, 8773-8783.	2.8	9
79	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled In Situ. <i>Angewandte Chemie</i> , 2015, 127, 7207-7211.	1.6	7
80	Technological development of intracellular polysilicon-chromium-gold chips for orthogonal chemical functionalization. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 212-224.	4.0	7
81	Synthesis and validation of DOPY: A new gemini dioleilylbispyridinium based amphiphile for nucleic acid transfection. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 165, 279-292.	2.0	7
82	Synthesis of Dipolar Ethyleneimidazolium Benzimidazolate Inner Salts and Their Transformation to 2-Vinylbenzimidazoles through a Type of b-Elimination Reaction. <i>Heterocycles</i> , 1996, 43, 567.	0.4	7
83	Molecular recognition of aliphatic amines by luminescent Zn-porphyrins. <i>Inorganica Chimica Acta</i> , 2014, 417, 222-229.	1.2	6
84	Controlling the preferential motion of chiral molecular walkers on a surface. <i>Chemical Science</i> , 2019, 10, 5864-5874.	3.7	6
85	Gemini Surfactant Mediated Catansomes for Enhanced Singlet Oxygen Generation of Rose Bengal and Their Phototoxicity against Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1878-1891.	2.6	6
86	Supramolecular Hydrogels Consisting of Nanofibers Increase the Bioavailability of Curcuminoids in Inflammatory Skin Diseases. <i>ACS Applied Nano Materials</i> , 2022, 5, 13829-13839.	2.4	6
87	Heterocyclic Betaines. Methylenepyridinium and Methyleneimidazolium Azolate Inner Salts. Synthesis and Structure. <i>Chemistry Letters</i> , 1991, 20, 845-848.	0.7	5
88	The betaine pool: molecular guests in medicinal chemistry and molecular hosts in supramolecular chemistry. <i>Il Farmaco</i> , 1999, 54, 297-308.	0.9	5
89	Quadrupolar [14](meta-para) <sup>2</sup> Heterophanes and [14]metaHeterophanes Containing Stable 3,5-Bis[1-methyl-4(3)-pyridiniomethyl]-1,2,4-triazolate Building Block. <i>Chemistry Letters</i> , 1995, 24, 865-866.	0.7	4
90	Selection of Betaine Building Blocks for the Construction of Quadrupolar Heterophane Frameworks. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 2691.	1.2	4

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91	Identification of bovine embryos cultured in groups by attachment of barcodes to the zona pellucida. <i>Reproduction, Fertility and Development</i> , 2014, 26, 645.	0.1	4
92	Piezoelectric tuning fork biosensors for the quantitative measurement of biomolecular interactions. <i>Nanotechnology</i> , 2015, 26, 495502.	1.3	4
93	Singlet oxygen generation from porphyrin-functionalized hexahedral polysilicon microparticles. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 223-233.	0.4	4
94	π-Donor/π-Acceptor Interactions for the Encapsulation of Neurotransmitters on Functionalized Polysilicon-Based Microparticles. <i>Pharmaceutics</i> , 2020, 12, 724.	2.0	4
95	Enhanced cytotoxicity of highly water-soluble gold nanoparticle-cyclopeptide conjugates in cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111384.	2.5	4
96	Metalloctanionic vesicle-mediated enhanced singlet oxygen generation and photodynamic therapy of cancer cells. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2160-2170.	2.9	4
97	Novel captodative methylene compounds. Spontaneous oxidation of 1-alkyl-4(3)-(azolylmethyl)pyridinium salts. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, .	2.0	3
98	Novel Anionophores for Biosensor Applications: Nano Characterisation of SAMs Based on Amphiphilic Imidazolium Protophanes and Cyclophanes on Gold Surfaces. <i>Sensor Letters</i> , 2009, 7, 757-764.	0.4	3
99	Switchable Interlocked Molecules, Threaded Complexes and Interlocking in Crystals. , 1996, , 65-83.		2
100	Heterocyclic Betaines. Imidazolium Benzimidazolate Inner Salts with a Vinylene and Oxoethylene Interannular Linkages. <i>Chemistry Letters</i> , 1992, 21, 1779-1782.	0.7	1
101	Application of the Kauffmann Arenó-Analogy Principle to Stability towards Oxidation of the Methylene Spacers in Quadripolar [14]Heterophane Frameworks Incorporating 4- or 3-Pyridinylmethyl-1,2,4-triazolate Betaine Units. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 235-241.	1.2	1
102	Integrating magnetic capabilities to intracellular chips for cell trapping. <i>Scientific Reports</i> , 2021, 11, 18495.	1.6	1
103	Polysilicon Microchips Functionalized with Bipyridinium-Based Cyclophanes for a Highly Efficient Cytotoxicity in Cancerous Cells. <i>ACS Nano</i> , 2022, 16, 5358-5375.	7.3	1
104	Intracellular Mechanical Drugs Induce Cell Cycle Altering and Cell Death. <i>Advanced Materials</i> , 2022, 34, e2109581.	11.1	1
105	Spontaneous Resolution under Supramolecular Control. <i>ChemInform</i> , 2003, 34, no.	0.1	0
106	Assessing the Chemical Stability and Cytotoxicity of Electrodeposited Magnetic Mesoporous Fe-Pt Films for Biomedical Applications. <i>Langmuir</i> , 2021, 37, 8801-8810.	1.6	0
107	Assembling Supramolecular Rotors on Surfaces Under Ambient Conditions. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 127-141.	0.0	0