

Lluisa Perez-Garcia

List of Publications by Year in descending order

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107
papers

3,517
citations

186265

28
h-index

149698

56
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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.	38.1	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.	38.1	414
3	Molecular Meccano. 4. The Self-Assembly of [2]Catenanes Incorporating Photoactive π -Extended Systems. <i>Journal of the American Chemical Society</i> , 1995, 117, 11171-11197.	13.7	168
4	A Switchable Hybrid [2]-Catenane Based on Transition Metal Complexation and π -Electron Donor-Acceptor Interactions. <i>Journal of the American Chemical Society</i> , 1996, 118, 3905-3913.	13.7	112
5	Hydrogen bonded driven anion binding by dicationic [14]imidazoliophanes. <i>Chemical Communications</i> , 1999, , 295-296.	4.1	112
6	Photosensitizer-gold nanoparticle conjugates for photodynamic therapy of cancer. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1534-1552.	2.9	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.	2.3	92
8	Gemini Imidazolium Amphiphiles for the Synthesis, Stabilization, and Drug Delivery from Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 2368-2381.	3.5	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.	9.4	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.	9.4	74
11	Diazapyrenium-containing catenanes and rotaxanes. <i>New Journal of Chemistry</i> , 1999, 23, 587-602.	2.8	69
12	Topology in molecules inspired, seen and represented. <i>Chemical Society Reviews</i> , 2009, 38, 1562.	38.1	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.	3.3	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.	3.2	57
16	Anion Template-Directed Synthesis of Dicationic [14]Imidazoliophanes. <i>Organic Letters</i> , 1999, 1, 1035-1038.	4.6	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.	5.8	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.	3.7	50

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19	Highly Conductive Single-Molecule Wires with Controlled Orientation by Coordination of Metalloporphyrins. Nano Letters, 2014, 14, 4751-4756.	9.1	48
20	Controlling Translational Isomerism in [2]Catenanes. Angewandte Chemie International Edition in English, 1995, 34, 571-574.	4.4	44
21	Kinetic Selection in the Template-Directed Self-Assembly of [2]Catenanes. Angewandte Chemie International Edition in English, 1995, 34, 2378-2380.	4.4	42
22	Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanide-Doped Self-Assembled Polymer Monolayers. Advanced Functional Materials, 2016, 26, 200-209.	14.9	42
23	A New Porphyrin for the Preparation of Functionalized Water-Soluble Gold Nanoparticles with Low Intrinsic Toxicity. ChemistryOpen, 2015, 4, 127-136.	1.9	36
24	Imidazolium-Based [14]Heterophanes as Models for Anion Recognition. European Journal of Organic Chemistry, 2006, 2006, 3988-3996.	2.4	33
25	Amphiphilic gemini pyridinium-mediated incorporation of Zn(II)meso-tetrakis(4-carboxyphenyl)porphyrin into water-soluble gold nanoparticles for photodynamic therapy. Colloids and Surfaces B: Biointerfaces, 2017, 158, 602-609.	5.0	32
26	Nanocarriers from dicationic bis-imidazolium amphiphiles and their interaction with anionic drugs. Journal of Materials Chemistry B, 2013, 1, 4963.	5.8	31
27	Enhanced vitamin C skin permeation from supramolecular hydrogels, illustrated using in situ ToF-SIMS 3D chemical profiling. International Journal of Pharmaceutics, 2019, 563, 21-29.	5.2	31
28	Synthesis and Biological Activity of Gold(I) N-Heterocyclic Carbene Complexes with Long Aliphatic Side Chains. European Journal of Inorganic Chemistry, 2014, 2014, 6117-6125.	2.0	29
29	Nondegenerate π -Donor/ π -Acceptor [2]Catenanes Containing Proton-Ionizable 1H-1,2,4-Triazole Subunits: Synthesis and Spontaneous Resolution. Chemistry - A European Journal, 2007, 13, 3964-3979.	3.3	28
30	Towards a Tunable Tautomeric Switch in Azobenzene Biomimetics: Implications for the Binding Affinity of 2-(4-(2-Hydroxyphenylazo)benzoic Acid to Streptavidin. Chemistry - A European Journal, 2008, 14, 2277-2285.	3.3	26
31	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled In Situ. Angewandte Chemie - International Edition, 2015, 54, 7101-7105.	13.8	26
32	Non-classical [14]metaheterophanes containing betaine units. Synthesis, NMR spectroscopy and X-ray crystallography. Journal of the Chemical Society Chemical Communications, 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.	13.6	24
38	Novel Bis-betaines and Betaines within [14]meta-Heterophane Frameworks. <i>Chemistry - A European Journal</i> , 2002, 8, 474-484.	3.3	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.	0.9	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.	9.4	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.	9.4	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.	3.2	20
43	Water-soluble gold nanoparticles based on imidazolium gemini amphiphiles incorporating piroxicam. <i>RSC Advances</i> , 2014, 4, 9279.	3.6	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.	4.1	20
45	Suspended Planar Array Chips for Molecular Multiplexing at the Microscale. <i>Advanced Materials</i> , 2016, 28, 1449-1454.	21.0	20
46	Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. <i>Advanced Optical Materials</i> , 2020, 8, 2000312.	7.3	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.	0.9	19
48	Nanostructured materials for photodynamic therapy: synthesis, characterization and in vitro activity. <i>RSC Advances</i> , 2017, 7, 16963-16976.	3.6	19
49	Cationic Supramolecular Hydrogels for Overcoming the Skin Barrier in Drug Delivery. <i>ChemistryOpen</i> , 2017, 6, 585-598.	1.9	17
50	Self-assembly in chemical synthesis. <i>Supramolecular Chemistry</i> , 1995, 6, 11-27.	1.2	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.	5.0	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.	9.4	16
53	Wireless Nanobioelectronics for Electrical Intracellular Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 6397-6408.	5.0	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.	9.4	16

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55	Spontaneous resolution in a family of [2]catenanes containing proton-ionisable 1H-1,2,4-triazole subunits. Mendelev Communications, 2004, 14, 233-235.	1.6	15
56	Efficient Biofunctionalization of Polysilicon Barcodes for Adhesion to the Zona Pellucida of Mouse Embryos. Bioconjugate Chemistry, 2012, 23, 2392-2402.	3.6	15
57	Kontrolle der Translationsisomerie in [2] Catenanen. Angewandte Chemie, 1995, 107, 607-610.	2.0	14
58	Spontaneous resolution of a non-degenerate donor-acceptor [2]catenane. Mendelev Communications, 2003, 13, 100-102.	1.6	14
59	Proton ionizable 1H-1,2,4-triazole π -electron deficient cyclophanes as hosts and in [2]catenanes. New Journal of Chemistry, 2009, 33, 300-317.	2.8	14
60	Macrocyclic ionic liquid crystals. New Journal of Chemistry, 2012, 36, 558-561.	2.8	14
61	Au(κ -N-heterocyclic carbenes from bis-imidazolium amphiphiles: synthesis, cytotoxicity and incorporation onto gold nanoparticles. RSC Advances, 2016, 6, 2202-2209.	3.6	14
62	Drug-Loaded Supramolecular Gels Prepared in a Microfluidic Platform: Distinctive Rheology and Delivery through Controlled Far-from-Equilibrium Mixing. ACS Omega, 2017, 2, 8849-8858.	3.5	14
63	Heterocyclic Betaines. XXII. Azinium(Azolium)4-Nitrobenzimidazolate Inner Salts and Their Derivatives with Several Interannular Spacers. Synthesis, Characterization and Antitrichomonal Activity.. Chemical and Pharmaceutical Bulletin, 1995, 43, 493-498.	1.3	13
64	Kinetische Selektion bei der templatgesteuerten Selbstorganisation von [2]Catenanen. Angewandte Chemie, 1995, 107, 2569-2572.	2.0	13
65	Highly Anisotropic Suspended Planar Array Chips with Multidimensional Submicrometric Biomolecular Patterns. Advanced Functional Materials, 2017, 27, 1605912.	14.9	13
66	Quantification of energy of activation to supramolecular nanofibre formation reveals enthalpic and entropic effects and morphological consequence. Chemical Science, 2019, 10, 10256-10266.	7.4	12
67	Multiply biphenyl substituted zinc(II) porphyrin and phthalocyanine as components for molecular materials. Journal of Porphyrins and Phthalocyanines, 2012, 16, 1293-1302.	0.8	11
68	Enhancing Singlet Oxygen Generation by Self-Assembly of a Porphyrin Entrapped in Supramolecular Fibers. Cell Reports Physical Science, 2020, 1, 100030.	5.6	11
69	Synthesis and antitrichomonal activity of azinium (azolium) 4-nitrobenzimidazolate betaines and their derivatives. European Journal of Medicinal Chemistry, 1992, 27, 171-176.	5.5	10
70	Heterocyclic Betaines. XVI. Properties of (E)-1-Alkyl(or) Tetrahydro-1H-benzimidazole-4-carboxylates. Journal of Heterocyclic Chemistry, 1993, 41, 614-616.	1.3	10
71	Design of unusual captodative methylene substrates: 1-Alkyl-4-(3-(azolylmethyl)pyridinium salts 1. Tetrahedron, 1995, 51, 13365-13378.	1.9	10
72	Electrochemical preparation and characterization of magnetic core-shell nanowires for biomedical applications. Electrochemistry Communications, 2016, 63, 18-21.	4.7	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.	3.6	10
74	An imidazolium-based supramolecular gelator enhancing interlayer adhesion in 3D printed dual network hydrogels. <i>Materials and Design</i> , 2021, 206, 109792.	7.0	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.	1.3	9
76	Unconventional acceptor and donor functional groups linked by a captodative spacer. <i>Tetrahedron</i> , 1996, 52, 15197-15208.	1.9	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.	9.4	9
78	Polysilicon-chromium-gold intracellular chips for multi-functional biomedical applications. <i>Nanoscale</i> , 2016, 8, 8773-8783.	5.6	9
79	A Small Molecule Walks Along a Surface Between Porphyrin Fences That Are Assembled Inâ€¦Situ. <i>Angewandte Chemie</i> , 2015, 127, 7207-7211.	2.0	7
80	Technological development of intracellular polysiliconâ€“chromiumâ€“gold chips for orthogonal chemical functionalization. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 212-224.	7.8	7
81	Synthesis and validation of DOPY: A new gemini dioleilylpyridinium based amphiphile for nucleic acid transfection. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 165, 279-292.	4.3	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.	0.7	7
83	Molecular recognition of aliphatic amines by luminescent Zn-porphyrins. <i>Inorganica Chimica Acta</i> , 2014, 417, 222-229.	2.4	6
84	Controlling the preferential motion of chiral molecular walkers on a surface. <i>Chemical Science</i> , 2019, 10, 5864-5874.	7.4	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.	5.2	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.	5.0	6
87	Heterocyclic Betaines. Methylenepyridinium and Methyleneimidazolium Azolate Inner Salts. Synthesis and Structure. <i>Chemistry Letters</i> , 1991, 20, 845-848.	1.3	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)2Heterophanes 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.	1.3	4
90	Selection of Betaine Building Blocks for the Construction of Quadrupolar Heterophane Frameworks. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 2691.	2.4	4

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91	Identification of bovine embryos cultured in groups by attachment of barcodes to the zona pellucida. Reproduction, Fertility and Development, 2014, 26, 645.	0.4	4
92	Piezoelectric tuning fork biosensors for the quantitative measurement of biomolecular interactions. Nanotechnology, 2015, 26, 495502.	2.6	4
93	Singlet oxygen generation from porphyrin-functionalized hexahedral polysilicon microparticles. Journal of Porphyrins and Phthalocyanines, 2019, 23, 223-233.	0.8	4
94	İ€-Donor/İ€-Acceptor Interactions for the Encapsulation of Neurotransmitters on Functionalized Polysilicon-Based Microparticles. Pharmaceutics, 2020, 12, 724.	4.5	4
95	Enhanced cytotoxicity of highly water-soluble gold nanoparticle-cyclopeptide conjugates in cancer cells. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111384.	5.0	4
96	Metallocatanionic vesicle-mediated enhanced singlet oxygen generation and photodynamic therapy of cancer cells. Journal of Materials Chemistry B, 2022, 10, 2160-2170.	5.8	4
97	Novel captodative methylene compounds. Spontaneous oxidation of 1-alkyl-4(3)-(azolylmethyl)pyridinium salts. Journal of the Chemical Society Chemical Communications, 1994, .	2.0	3
98	Novel Anionophores for Biosensor Applications: Nano Characterisation of SAMs Based on Amphiphilic Imidazolium Protophanes and Cyclophanes on Gold Surfaces. Sensor Letters, 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. Chemistry Letters, 1992, 21, 1779-1782.	1.3	1
101	Application of the Kauffmann Areno-Analogy Principle â” Stability towards Oxidation of the Methylene Spacers in Quadrupolar [14]Heterophane Frameworks Incorporating 4- or 3-Pyridinylmethyl-1,2,4-triazolate Betaine Units. European Journal of Organic Chemistry, 2002, 2002, 235-241.	2.4	1
102	Integrating magnetic capabilities to intracellular chips for cell trapping. Scientific Reports, 2021, 11, 18495.	3.3	1
103	Polysilicon Microchips Functionalized with Bipyridinium-Based Cyclophanes for a Highly Efficient Cytotoxicity in Cancerous Cells. ACS Nano, 2022, 16, 5358-5375.	14.6	1
104	Intracellular Mechanical Drugs Induce Cellâ€Cycle Altering and Cell Death. Advanced Materials, 2022, 34, e2109581.	21.0	1
105	Spontaneous Resolution under Supramolecular Control. ChemInform, 2003, 34, no.	0.0	0
106	Assessing the Chemical Stability and Cytotoxicity of Electrodeposited Magnetic Mesoporous Feâ€Pt Films for Biomedical Applications. Langmuir, 2021, 37, 8801-8810.	3.5	0
107	Assembling Supramolecular Rotors on Surfaces Under Ambient Conditions. Advances in Atom and Single Molecule Machines, 2015, , 127-141.	0.0	0