

Lluisa Perez-Garcia

List of Publications by Year in descending order

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107
papers

3,517
citations

185998

28
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149479

56
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111
all docs

111
docs citations

111
times ranked

4441
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallocatanionic 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
2	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
3	Intracellular Mechanical Drugs Induce Cell Cycle Altering and Cell Death. <i>Advanced Materials</i> , 2022, 34, e2109581.	11.1	1
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Integrating magnetic capabilities to intracellular chips for cell trapping. <i>Scientific Reports</i> , 2021, 11, 18495.	1.6	1
12	Light-controlled micron-scale molecular motion. <i>Nature Chemistry</i> , 2021, 13, 1200-1206.	6.6	24
13	π -Donor/ π -Acceptor Interactions for the Encapsulation of Neurotransmitters on Functionalized Polysilicon-Based Microparticles. <i>Pharmaceutics</i> , 2020, 12, 724.	2.0	4
14	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
15	Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. <i>Advanced Optical Materials</i> , 2020, 8, 2000312.	3.6	20
16	Wireless Nanobioelectronics for Electrical Intracellular Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 6397-6408.	2.4	16
17	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
18	Nanostructured supramolecular hydrogels: Towards the topical treatment of Psoriasis and other skin diseases. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 657-670.	2.5	24

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19	Controlling the preferential motion of chiral molecular walkers on a surface. <i>Chemical Science</i> , 2019, 10, 5864-5874.	3.7	6
20	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
21	Singlet oxygen generation from porphyrin-functionalized hexahedral polysilicon microparticles. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 223-233.	0.4	4
22	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
23	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
24	Photosensitizer-gold nanoparticle conjugates for photodynamic therapy of cancer. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1534-1552.	1.6	101
25	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
26	Highly Anisotropic Suspended Planar Array Chips with Multidimensional Submicrometric Biomolecular Patterns. <i>Advanced Functional Materials</i> , 2017, 27, 1605912.	7.8	13
27	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
28	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
29	Nanostructured materials for photodynamic therapy: synthesis, characterization and in vitro activity. <i>RSC Advances</i> , 2017, 7, 16963-16976.	1.7	19
30	Microscale coiling in bis-imidazolium supramolecular hydrogel fibres induced by the release of a cationic serine protease inhibitor. <i>Chemical Communications</i> , 2017, 53, 4509-4512.	2.2	24
31	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
32	Cationic Supramolecular Hydrogels for Overcoming the Skin Barrier in Drug Delivery. <i>ChemistryOpen</i> , 2017, 6, 585-598.	0.9	17
33	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
34	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
35	Suspended Planar Array Chips for Molecular Multiplexing at the Microscale. <i>Advanced Materials</i> , 2016, 28, 1449-1454.	11.1	20
36	Polysilicon-chromium-gold intracellular chips for multi-functional biomedical applications. <i>Nanoscale</i> , 2016, 8, 8773-8783.	2.8	9

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37	Au(<i>N</i> -heterocyclic carbenes from bis-imidazolium amphiphiles: synthesis, cytotoxicity and incorporation onto gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 2202-2209.	1.7	14
38	Electrochemical preparation and characterization of magnetic core-shell nanowires for biomedical applications. <i>Electrochemistry Communications</i> , 2016, 63, 18-21.	2.3	10
39	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
40	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
41	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
42	Piezoelectric tuning fork biosensors for the quantitative measurement of biomolecular interactions. <i>Nanotechnology</i> , 2015, 26, 495502.	1.3	4
43	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
44	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
45	Novel nanostructured supramolecular hydrogels for the topical delivery of anionic drugs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 421-436.	2.0	24
46	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
47	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
48	Assembling Supramolecular Rotors on Surfaces Under Ambient Conditions. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 127-141.	0.0	0
49	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
50	Synthesis and Biological Activity of Gold(I) <i>N</i> -Heterocyclic Carbene Complexes with Long Aliphatic Side Chains. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6117-6125.	1.0	29
51	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
52	Water-soluble gold nanoparticles based on imidazolium gemini amphiphiles incorporating piroxicam. <i>RSC Advances</i> , 2014, 4, 9279.	1.7	20
53	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
54	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

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55	Highly Conductive Single-Molecule Wires with Controlled Orientation by Coordination of Metalloporphyrins. <i>Nano Letters</i> , 2014, 14, 4751-4756.	4.5	48
56	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
57	Molecular recognition of aliphatic amines by luminescent Zn-porphyrins. <i>Inorganica Chimica Acta</i> , 2014, 417, 222-229.	1.2	6
58	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
59	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
60	Gemini Imidazolium Amphiphiles for the Synthesis, Stabilization, and Drug Delivery from Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 2368-2381.	1.6	79
61	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
62	Macrocyclic ionic liquid crystals. <i>New Journal of Chemistry</i> , 2012, 36, 558-561.	1.4	14
63	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
64	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
65	Topology in molecules inspired, seen and represented. <i>Chemical Society Reviews</i> , 2009, 38, 1562.	18.7	63
66	Proton ionizable 1H-1,2,4-triazole π -electron deficient cyclophanes as hosts and in [2]catenanes. <i>New Journal of Chemistry</i> , 2009, 33, 300-317.	1.4	14
67	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
68	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
69	Spontaneous resolution, whence and whither: from enantiomeric 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
70	Nondegenerate π -Donor/ π -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
71	Imidazolium-Based [14]Heterophanes as Models for Anion Recognition. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3988-3996.	1.2	33
72	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

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73	Spontaneous resolution of a non-degenerate donor-acceptor [2]catenane. Mendeleev Communications, 2003, 13, 100-102.	0.6	14
74	Spontaneous Resolution under Supramolecular Control. ChemInform, 2003, 34, no.	0.1	0
75	Quantitative Evaluation of the Chloride Template Effect in the Formation of Dicationic [14]Imidazoliophanes. Journal of Organic Chemistry, 2002, 67, 8463-8468.	1.7	57
76	Spontaneous resolution under supramolecular control. Chemical Society Reviews, 2002, 31, 342-356.	18.7	517
77	Novel Bis-betaines and Betaines within [14]meta-Heterophane Frameworks. Chemistry - A European Journal, 2002, 8, 474-484.	1.7	23
78	Selection of Betaine Building Blocks for the Construction of Quadrupolar Heterophane Frameworks. European Journal of Organic Chemistry, 2002, 2002, 2691.	1.2	4
79	Application of the Kauffmann Arenó-Analogy Principle to Stability towards Oxidation of the Methylene Spacers in Quadrupolar [14]Heterophane Frameworks Incorporating 4- or 3-Pyridiniomethyl-1,2,4-triazolate Betaine Units. European Journal of Organic Chemistry, 2002, 2002, 235-241.	1.2	1
80	The betaine pool: molecular guests in medicinal chemistry and molecular hosts in supramolecular chemistry. Il Farmaco, 1999, 54, 297-308.	0.9	5
81	Diazapyrenium-containing catenanes and rotaxanes. New Journal of Chemistry, 1999, 23, 587-602.	1.4	69
82	Anion Template-Directed Synthesis of Dicationic [14]Imidazoliophanes. Organic Letters, 1999, 1, 1035-1038.	2.4	54
83	Hydrogen bonded driven anion binding by dicationic [14]imidazoliophanes. Chemical Communications, 1999, , 295-296.	2.2	112
84	A Switchable Hybrid [2]-Catenane Based on Transition Metal Complexation and π -Electron Donor-Acceptor Interactions. Journal of the American Chemical Society, 1996, 118, 3905-3913.	6.6	112
85	Unconventional acceptor and donor functional groups linked by a captodative spacer. Tetrahedron, 1996, 52, 15197-15208.	1.0	9
86	Switchable Interlocked Molecules, Threaded Complexes and Interlocking in Crystals. , 1996, , 65-83.		2
87	Synthesis of Dipolar Ethyleneimidazolium Benzimidazolate Inner Salts and Their Transformation to 2-Vinylbenzimidazoles through a Type of β -Elimination Reaction. Heterocycles, 1996, 43, 567.	0.4	7
88	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.	0.6	13
89	Quadrupolar [14](meta-para) ² Heterophanes and [14]metaHeterophanes Containing Stable 3,5-Bis[1-methyl-4(3)-pyridiniomethyl]-1,2,4-triazolate Building Block. Chemistry Letters, 1995, 24, 865-866.	0.7	4
90	Kontrolle der Translationsisomerie in [2] Catenanen. Angewandte Chemie, 1995, 107, 607-610.	1.6	14

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91	Kinetische Selektion bei der templatgesteuerten Selbstorganisation von [2]Catenanen. Angewandte Chemie, 1995, 107, 2569-2572.	1.6	13
92	Controlling Translational Isomerism in [2]Catenanes. Angewandte Chemie International Edition in English, 1995, 34, 571-574.	4.4	44
93	Kinetic Selection in the Template-Directed Self-Assembly of [2]Catenanes. Angewandte Chemie International Edition in English, 1995, 34, 2378-2380.	4.4	42
94	Design of unusual captodative methylene substrates: 1-Alkyl-4(3)-(azolylmethyl)pyridinium salts 1. Tetrahedron, 1995, 51, 13365-13378.	1.0	10
95	Self-assembly in chemical synthesis. Supramolecular Chemistry, 1995, 6, 11-27.	1.5	16
96	Molecular Meccano. 4. The Self-Assembly of [2]Catenanes Incorporating Photoactive .pi.-Extended Systems. Journal of the American Chemical Society, 1995, 117, 11171-11197.	6.6	168
97	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
98	The self assembly of controllable [2]catenanes. Journal of the Chemical Society Chemical Communications, 1994, , 177-180.	2.0	60
99	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
100	Heterocyclic Betaines. XVI. Properties of (E)-1-Alkyl(or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (Aminoalkyl)-4-(2-(1H-benzimidazol-2-yl)pyridinium Salts, their Homologues and Vinylogues. Synthesis, 1992, 1992, 395-398.	0.6	10
101	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. Synthesis, 1992, 1992, 395-398.	1.2	92
102	Heterocyclic Betaines. Imidazolium Benzimidazolate Inner Salts with a Vinylene and Oxoethylene Interannular Linkages. Chemistry Letters, 1992, 21, 1779-1782.	0.7	1
103	Heterocyclic Betaines. Novel Ethyleneimidazolium Benzimidazolate Inner Salts. Synthesis, Characterization, and Transformation into 2-Vinyl-1H-benzimidazoles. Chemistry Letters, 1992, 21, 2357-2360.	0.7	9
104	Heterocyclic betaines. 13. Synthesis and electronic and molecular structures of methylenepyridinium and methyleneimidazolium azolate inner salts. Journal of Organic Chemistry, 1992, 57, 4829-4834.	1.7	20
105	Synthesis and antitrichomonal activity of azinium (azolium) 4-nitrobenzimidazolate betaines and their derivatives. European Journal of Medicinal Chemistry, 1992, 27, 171-176.	2.6	10
106			