Catia Ornelas

List of Publications by Citations

81 papers	5,290 citations	31 h-index	72 g-index
93 ext. papers	5,622 ext. citations	6.9 avg, IF	5.98 L-index

#	Paper	IF	Citations
81	Dendrimers designed for functions: from physical, photophysical, and supramolecular properties to applications in sensing, catalysis, molecular electronics, photonics, and nanomedicine. *Chemical Reviews*, **2010**, 110, 1857-959	68.1	1534
80	Application of ferrocene and its derivatives in cancer research. *New Journal of Chemistry*, **2011**, 35, 1973	3.6	358
79	Click assembly of 1,2,3-triazole-linked dendrimers, including ferrocenyl dendrimers, which sense both oxo anions and metal cations. *Angewandte Chemie - International Edition*, **2007**, 46, 872-7	16.4	322
78	"Homeopathic" catalytic activity and atom-leaching mechanism in Miyaura-Suzuki reactions under ambient conditions with precise dendrimer-stabilized Pd nanoparticles. *Angewandte Chemie - International Edition*, **2007**, 46, 8644-8	16.4	285
77	Metallocenyl dendrimers and their applications in molecular electronics, sensing, and catalysis. *Accounts of Chemical Research*, **2008**, 41, 841-56	24.3	262
76	"Click" dendrimers: synthesis, redox sensing of Pd(OAc)2, and remarkable catalytic hydrogenation activity of precise Pd nanoparticles stabilized by 1,2,3-triazole-containing dendrimers. *Chemistry - A European Journal*, **2008**, 14, 50-64	4.8	181
75	Giant dendritic molecular electrochrome batteries with ferrocenyl and pentamethylferrocenyl termini. *Journal of the American Chemical Society*, **2009**, 131, 590-601	16.4	165
74	Encapsulation and stabilization of gold nanoparticles with "click" polyethyleneglycol dendrimers. *Journal of the American Chemical Society*, **2010**, 132, 2729-42	16.4	148
73	Sulphonated "Click" Dendrimer-Stabilized Palladium Nanoparticles as Highly Efficient Catalysts for Olefin Hydrogenation and Suzuki Coupling Reactions Under Ambient Conditions in Aqueous Media. *Advanced Synthesis and Catalysis*, **2008**, 350, 837-845	5.6	124
72	Strain-promoted alkyne azide cycloaddition for the functionalization of poly(amide)-based dendrons and dendrimers. *Journal of the American Chemical Society*, **2010**, 132, 3923-31	16.4	120
71	Polyphosphonium polymers for siRNA delivery: an efficient and nontoxic alternative to polyammonium carriers. *Journal of the American Chemical Society*, **2012**, 134, 1902-5	16.4	116
70	Construction of giant dendrimers using a tripodal building block. *Journal of the American Chemical Society*, **2003**, 125, 7250-7	16.4	112
69	Catalytically efficient palladium nanoparticles stabilized by "click" ferrocenyl dendrimers. *Chemical Communications*, **2007**, 4946-8	5.8	92
68	Construction of a well-defined multifunctional dendrimer for theranostics. *Organic Letters*, **2011**, 13, 976-9	6.2	83
67	Ferrocenyl-terminated Dendrimers: Design for Applications in Molecular Electronics, Molecular Recognition and Catalysis. *Journal of Inorganic and Organometallic Polymers and Materials*, **2008**, 18, 4-17	3.2	76
66	Cross olefin metathesis for the selective functionalization, ferrocenylation, and solubilization in water of olefin-terminated dendrimers, polymers, and gold nanoparticles and for a divergent dendrimer construction. *Journal of the American Chemical Society*, **2008**, 130, 1495-506	16.4	72
65	"Click" Polymer-Supported Palladium Nanoparticles as Highly Efficient Catalysts for Olefin Hydrogenation and Suzuki Coupling Reactions under Ambient Conditions. *Advanced Synthesis and Catalysis*, **2009**, 351, 2147-2154	5.6	65

64	Homeopathic Catalytic Activity and Atom-Leaching Mechanism in Miyaura Suzuki Reactions under Ambient Conditions with Precise Dendrimer-Stabilized Pd Nanoparticles. *Angewandte Chemie*, **2007**, 119, 8798-8802	3.6	60
63	Dendritic molecular electrochromic batteries based on redox-robust metallocenes. *Chemistry - A European Journal*, **2009**, 15, 8936-44	4.8	59
62	Click Assembly of 1,2,3-Triazole-Linked Dendrimers, Including Ferrocenyl Dendrimers, Which Sense Both Oxo Anions and Metal Cations. *Angewandte Chemie*, **2007**, 119, 890-895	3.6	59
61	Electronic communication between immobilized ferrocenyl-terminated dendrimers. *Journal of the American Chemical Society*, **2009**, 131, 6652-3	16.4	57
60	Combining aminocyanine dyes with polyamide dendrons: a promising strategy for imaging in the near-infrared region. *Chemistry - A European Journal*, **2011**, 17, 3619-29	4.8	52
59	Efficient mono- and bifunctionalization of polyolefin dendrimers by olefin metathesis. *Angewandte Chemie - International Edition*, **2005**, 44, 7399-404	16.4	52
58	From simple monopyridine clusters [Mo6Br13(Py-R)][n-Bu4N] and hexapyridine clusters [Mo6X8(Py-R)6][OSO2CF3]4 (X = Br or I) to cluster-cored organometallic stars, dendrons, and dendrimers. *Inorganic Chemistry*, **2006**, 45, 1156-67	5.1	50
57	Terms of endearment: Bacteria meet graphene nanosurfaces. *Biomaterials*, **2016**, 89, 38-55	15.6	48
56	Four generations of water-soluble dendrimers with 9 to 243 benzoate tethers: synthesis and dendritic effects on their ion pairing with acetylcholine, benzyltriethylammonium, and dopamine in water. *Chemistry - A European Journal*, **2008**, 14, 5577-87	4.8	47
55	Giant Cobalticinium Dendrimers. *Organometallics*, **2009**, 28, 2716-2723	3.8	44
54	Aerosolized antimicrobial agents based on degradable dextran nanoparticles loaded with silver carbene complexes. *Molecular Pharmaceutics*, **2012**, 9, 3012-22	5.6	39
53	Brief Timelapse on Dendrimer Chemistry: Advances, Limitations, and Expectations. *Macromolecular Chemistry and Physics*, **2016**, 217, 149-174	2.6	37
52	Dendritic and Ion-Pairing Effects in Oxo-anion Recognition by Giant Alkylferrocenyl Dendrimers. *Organometallics*, **2009**, 28, 4431-4437	3.8	36
51	Construction of well-defined multifunctional dendrimers using a trifunctional core. *Chemical Communications*, **2009**, 5710-2	5.8	33
50	Branching the electron-reservoir complex [Fe(eta(5)-C5H5)(eta(6)-C6Me6)][PF6] onto large dendrimers: "click", amide, and ionic bonds. *Inorganic Chemistry*, **2010**, 49, 6085-101	5.1	30
49	New water-soluble polyanionic dendrimers and binding to acetylcholine in water by means of contact ion-pairing interactions. *Chemical Communications*, **2007**, 5093-5	5.8	30
48	Extremely efficient catalysis of carbon-carbon bond formation using "click" dendrimer-stabilized palladium nanoparticles. *Molecules*, **2010**, 15, 4947-60	4.8	28
47	Mo6Br8-Cluster-cored organometallic stars and dendrimers. *Comptes Rendus Chimie*, **2005**, 8, 1789-1797	2.7	28

46	The structure-property relationship in LAPONITE materials: from Wigner glasses to strong self-healing hydrogels formed by non-covalent interactions. *Soft Matter*, **2019**, 15, 1278-1289	3.6	27
45	Soft Nanohydrogels Based on Laponite Nanodiscs: A Versatile Drug Delivery Platform for Theranostics and Drug Cocktails. *ACS Applied Materials & Interfaces*, **2018**, 10, 21891-21900	9.5	25
44	Olefin metathesis in nano-sized systems. *Beilstein Journal of Organic Chemistry*, **2011**, 7, 94-103	2.5	20
43	How do nitriles compare with isoelectronic alkynyl groups in the electronic communication between iron centers bridged by phenylenebis- and -tris(nitrile) ligands? An electronic and crystal-structure study. *Inorganic Chemistry*, **2011**, 50, 114-24	5.1	18
42	Synthesis, characterization and crystal structure of the bimetallic cyano-bridged [(5-C5H5)(PPh3)2Ru(CN)Ru(PPh3)2(5-C5H5)][PF6]. *Inorganica Chimica Acta*, **2005**, 358, 2482-2488	2.7	18
41	, a Family of Super Dendrimers with Specific Properties and Applications. *Molecules*, **2018**, 23,	4.8	16
40	A one-pot synthesis of a 243-allyl dendrimer under ambient conditions. *Organic Letters*, **2006**, 8, 2751-3	6.2	16
39	Click Metallodendrimers and Their Functions. *Synlett*, **2015**, 26, 1437-1449	2.2	15
38	Visible-light photolysis of [FeCp(6-toluene)][PF6] as a clean, convenient and general route to iron-vinylidene and iron-acetylide complexes. *Journal of Organometallic Chemistry*, **2009**, 694, 1219-1222	2.3	15
37	Visible-light photolytic synthesis of multinuclear and dendritic iron-nitrile cationic complexes. *Inorganic Chemistry*, **2008**, 47, 4421-8	5.1	14
36	Review: Mixed-valent metallodendrimers: design and functions. *Journal of Coordination Chemistry*, **2014**, 67, 3809-3821	1.6	13
35	Visible-light generation of the naked 12-electron fragment C5H5Fe+: alkyne-to-vinylidene isomerization and synthesis of polynuclear iron vinylidene and alkynyl complexes including hexairon stars. *Inorganic Chemistry*, **2012**, 51, 119-27	5.1	13
34	Hybrid 3,4-dihydropyrimidin-2-(thi)ones as dual-functional bioactive molecules: fluorescent probes and cytotoxic agents to cancer cells. *New Journal of Chemistry*, **2020**, 44, 12440-12451	3.6	13
33	Biodegradable and pH-Responsive Acetalated Dextran (Ac-Dex) Nanoparticles for NIR Imaging and Controlled Delivery of a Platinum-Based Prodrug into Cancer Cells. *Molecular Pharmaceutics*, **2019**, 16, 2083-2094	5.6	12
32	Olefin Cyclopropanation by Radical Carbene Transfer Reactions Promoted by Cobalt(II)/Porphyrinates: Active-Metal-Template Synthesis of [2]Rotaxanes. *Angewandte Chemie - International Edition*, **2018**, 57, 8979-8983	16.4	12
31	Organometallic Syntheses of Hexa- and Nonanitrile Ligands and Their Ruthenium Complexes. *Organometallics*, **2004**, 23, 4271-4276	3.8	11
30	Ruthenium Metallodendrimers Based on Nitrile-Functionalized Poly(alkylidene imine)s. *European Journal of Inorganic Chemistry*, **2006**, 2006, 47-50	2.3	10
29	Enhancing the Anticancer Activity and Selectivity of Goniothalamin Using pH-Sensitive Acetalated Dextran (Ac-Dex) Nanoparticles: A Promising Platform for Delivery of Natural Compounds. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2929-2942	5.5	9

28	Nitric Oxide Releasing Polyamide Dendrimer with Anti-inflammatory Activity. *ACS Applied Polymer Materials*, **2020**, 2, 2027-2034	4.3	9
27	Electron-transfer mediation on poly-aryl dendrimer-modified electrodes. *Electrochemistry Communications*, **2009**, 11, 1703-1706	5.1	9
26	Interlocked systems in nanomedicine. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1236-56	3	9
25	General Protocol to Obtain D-Glucosamine from Biomass Residues: Shrimp Shells, Cicada Sloughs and Cockroaches. *Global Challenges*, **2018**, 2, 1800046	4.3	8
24	Anti-inflammatory activity of polyamide dendrimers bearing bile acid termini synthesized via SPAAC. *Journal of Nanoparticle Research*, **2019**, 21, 1	2.3	7
23	Nonswellable Injectable Hydrogels Self-Assembled Through Non-Covalent Interactions. *ChemistrySelect*, **2017**, 2, 3009-3013	1.8	6
22	Dendritic Molecular Nanobatteries and the Contribution of Click Chemistry. *Journal of Inorganic and Organometallic Polymers and Materials*, **2013**, 23, 41-49	3.2	6
21	Synthesis, characterization, and anticancer activity of folate–ferrocenyl conjugates. *New Journal of Chemistry*, **2020**, 44, 4694-4703	3.6	5
20	Redox recognition using "click" chemistry. *Inorganica Chimica Acta*, **2011**, 374, 51-58	2.7	5
19	Self-Assembly of a Triazolylferrocenyl Dendrimer in Water Yields Nontraditional Intrinsic Green Fluorescent Vesosomes for Nanotheranostic Applications. *Journal of the American Chemical Society*, **2021**, 143, 12948-12954	16.4	5
18	Organoiron-mediated synthesis and redox activity of organoiron-containing dendrimers. *Polyhedron*, **2015**, 86, 24-30	2.7	4
17	Correlation between Density Functional Studies and Experimental Data of Three New 19-Electron Metal Sandwich Complexes Containing Amido, Ester, and Thioester Cyclopentadienyl Substituents. *Organometallics*, **2008**, 27, 3693-3700	3.8	4
16	Olefin Cyclopropanation by Radical Carbene Transfer Reactions Promoted by Cobalt(II)/Porphyrinates: Active-Metal-Template Synthesis of [2]Rotaxanes. *Angewandte Chemie*, **2018**, 130, 9117-9121	3.6	4
15	"Click" synthesis of organo-silicon dendrimers. *Main Group Chemistry*, **2010**, 9, 87-100	0.6	3
14	Efficient Mono- and Bifunctionalization of Polyolefin Dendrimers by Olefin Metathesis. *Angewandte Chemie*, **2005**, 117, 7565-7570	3.6	3
13	Giant Dendrimer Construction: Hydroboration versus Hydrosilylation as a Growth Strategy. *ACS Symposium Series*, **2005**, 347-361	0.4	3
12	Neuropeptide Substance P Released from a Nonswellable Laponite-Based Hydrogel Enhances Wound Healing in a Tissue-Engineered Skin In Vitro. *ACS Applied Polymer Materials*, **2020**, 2, 5790-5797	4.3	3
11	Fluorescent Imidazo[1,2-a]pyrimidine Compounds as Biocompatible Organic Photosensitizers that Generate Singlet Oxygen: A Potential Tool for Phototheranostics. *Chemistry - A European Journal*, **2021**, 27, 6213-6222	4.8	3

10	Synthesis of Nitrogen-Containing Goniothalamin Analogues with Higher Cytotoxic Activity and Selectivity against Cancer Cells. *ChemMedChem*, **2019**, 14, 1403-1417	3.7	2
9	Catalysis by Dendrimer-Stabilized and Dendrimer-Encapsulated Late-Transition-Metal Nanoparticles **2012**, 97-122		2
8	Water-Soluble Well-Defined Bifunctional Ferrocenyl Dendrimer with Anti-Cancer Activity. *European Journal of Inorganic Chemistry*,	2.3	2
7	Fast Microwave-Assisted Synthesis of Green-Fluorescent Carbon Nanodots from Sugarcane Syrup **2019**,		2
6	Methodology for functionalization of water oxidation catalyst IrO nanoparticles with hydrophobic and multi-functionalized chromophores. *Chemical Communications*, **2021**, 57, 7398-7401	5.8	1
5	Hybrids of 4-hydroxy derivatives of goniothalamin and piplartine bearing a diester or a 1,2,3-triazole linker as antiproliferative agents. *Bioorganic Chemistry*, **2021**, 116, 105292	5.1	0
4	Ferrocene-based dendritic macromolecules as efficient supports in nanocatalysis. *Polymer*, **2022**, 246, 124714	3.9	0
3	"Click" Methodology for the Functionalization of Water Oxidation Catalyst Iridium Oxide Nanoparticles with Hydrophobic Dyes for Artificial Photosynthetic Constructs. *Methods in Molecular Biology*, **2018**, 1770, 319-334	1.4	
2	Inside Cover: Combining Aminocyanine Dyes with Polyamide Dendrons: A Promising Strategy for Imaging in the Near-Infrared Region (Chem. Eur. J. 13/2011). *Chemistry - A European Journal*, **2011**, 17, 3526-3526	4.8	
1	Organometallic Dendrimers: Design, Redox Properties and Catalytic Functions. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2012**, 133-149	0.2	