Julia Lorenzo Rivera

List of Publications by Year
in descending order

101 papers	3,176 citations	136740 32 h-index	174990 52 g-index
104 all docs	104 docs citations	104 times ranked	5218 citing authors

#	Article	IF	Citations
1	Synthesis, Culture Medium Stability, and In Vitro and In Vivo Zebrafish Embryo Toxicity of Metalâ€“Organic Framework Nanoparticles. Chemistry - A European Journal, 2015, 21, 2508-2518.	1.7	208
2	Vanadium polypyridyl compounds as potential antiparasitic and antitumoral agents: New achievements. Journal of Inorganic Biochemistry, 2011, 105, 303-312.	1.5	115
3	New Palladium(II) and Platinum(II) Complexes with the Model Nucleobase 1-Methylcytosine:Â Antitumor Activity and Interactions with DNA. Inorganic Chemistry, 2005, 44, 7365-7376.	1.9	107
4	Facile Preparation of Cationic Gold Nanoparticle-Bioconjugates for Cell Penetration and Nuclear Targeting. ACS Nano, 2012, 6, 7692-7702.	7.3	100
5	Adding value to the chia (Salvia hispanica L.) expeller: Production of bioactive peptides with antioxidant properties by enzymatic hydrolysis with Papain. Food Chemistry, 2019, 274, 848-856.	4.2	100
6	Nnalâ€‹ike proteins are active metallocarboxypeptidases of a new and diverse M14 subfamily. FASEB Journal, 2007, 21, 851-865.	0.2	95
7	Vanadium(IV) and copper(II) complexes of salicylaldimines and aromatic heterocycles: Cytotoxicity, DNA binding and DNA cleavage properties. Journal of Inorganic Biochemistry, 2015, 147, 134-146.	1.5	93
8	New Palladium(II) and Platinum(II) Complexes with 9-Aminoacridine: Structures, Luminiscence, Theoretical Calculations, and Antitumor Activity. Inorganic Chemistry, 2008, 47, 6990-7001.	1.9	89
9	A novel vanadyl complex with a polypyridyl DNA intercalator as ligand: A potential anti-protozoa and anti-tumor agent. Journal of Inorganic Biochemistry, 2009, 103, 1386-1394.	1.5	85
10	DNA interaction and cytotoxicity studies of new ruthenium(II) cyclopentadienyl derivative complexes containing heteroaromatic ligands. Journal of Inorganic Biochemistry, 2011, 105, 241-249.	1.5	83
11	Screening organometallic binuclear thiosemicarbazone ruthenium complexes as potential anti-tumour agents: cytotoxic activity and human serum albumin binding mechanism. Dalton Transactions, 2013, 42, 7131.	1.6	83
12	Palladium(II) and Platinum(II) Organometallic Complexes with the Model Nucleobase Anions of Thymine, Uracil, and Cytosine:Â Antitumor Activity and Interactions with DNA of the Platinum Compoundsâ—‹. Inorganic Chemistry, 2006, 45, 6347-6360.	1.9	82
13	A Carboxypeptidase Inhibitor from the Tick Rhipicephalus bursa. Journal of Biological Chemistry, 2005, 280, 3441-3448.	1.6	70
14	Relaxometry Studies of a Highly Stable Nanoscale Metalâ€“Organic Framework Made of Cu(II), Gd(III), and the Macrocyclic DOTP. Journal of the American Chemical Society, 2013, 135, 17711-17714.	6.6	69
15	The cytosolic carboxypeptidases CCP2 and CCP3 catalyze posttranslational removal of acidic amino acids. Molecular Biology of the Cell, 2014, 25, 3017-3027.	0.9	62
16	Magnetic, fluorescent and hybrid nanoparticles: From synthesis to application in biosystems. Materials Science and Engineering C, 2020, 106, 110104.	3.8	60
17	The Three-Dimensional Structures of Tick Carboxypeptidase Inhibitor in Complex with A/B Carboxypeptidases Reveal a Novel Double-headed Binding Mode. Journal of Molecular Biology, 2005, 350, 489-498.	2.0	57
18	Characterization of the Substrate Specificity of Human Carboxypeptidase A4 and Implications for a Role in Extracellular Peptide Processing. Journal of Biological Chemistry, 2010, 285, 18385-18396.	1.6	57

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19	Influence of PPh3 moiety in the anticancer activity of new organometallic ruthenium complexes. Journal of Inorganic Biochemistry, 2014, 136, 1-12.	1.5	51
20	DNA interaction and antiproliferative behavior of the water soluble platinum supramolecular squares [(en)Pt(Nâ€“N)]4(NO3)8 (en=ethylenediamine, Nâ€“N=4,4â€²-bipyridine or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (1,4-	1.5	51
21	Dual T₁/T₂ Nanoscale Coordination Polymers as Novel Contrast Agents for MRI: A Preclinical Study for Brain Tumor. ACS Applied Materials & Interfaces, 2018, 10, 38819-38832.	4.0	50
22	Bioinspired Theranostic Coordination Polymer Nanoparticles for Intranasal Dopamine Replacement in Parkinsonâ€™s Disease. ACS Nano, 2021, 15, 8592-8609.	7.3	50
23	Carboxyl Group (ï£¿CO₂H) Functionalized Coordination Polymer Nanoparticles as Efficient Platforms for Drug Delivery. Chemistry - A European Journal, 2014, 20, 15443-15450.	1.7	49
24	Internalization of cystatinâ€ƒC in human cell lines. FEBS Journal, 2008, 275, 4571-4582.	2.2	48
25	Platinum complexes of diaminocarboxylic acids and their ethyl ester derivatives: the effect of the chelate ring size on antitumor activity and interactions with GMP and DNA. Journal of Inorganic Biochemistry, 2003, 96, 493-502.	1.5	45
26	Influence of the position of substituents in the cytotoxic activity of trans platinum complexes with hydroxymethyl pyridines. Bioorganic and Medicinal Chemistry, 2007, 15, 969-979.	1.4	41
27	Proteome-derived Peptide Libraries to Study the Substrate Specificity Profiles of Carboxypeptidases. Molecular and Cellular Proteomics, 2013, 12, 2096-2110.	2.5	40
28	Water-soluble platinum(II) complexes of diamine chelating ligands bearing amino-acid type substituents: the effect of the linked amino acid and the diamine chelate ring size on antitumor activity, and interactions with 5â€²-GMP and DNA. Journal of Inorganic Biochemistry, 2004, 98, 1933-1946.	1.5	39
29	Synthesis, characterization and antiproliferative studies of the enantiomers of cis-[(1,2-camphordiamine)dichloro]platinum(II) complexes. Bioorganic and Medicinal Chemistry, 2008, 16, 1721-1737.	1.4	39
30	Studies of the Antiproliferative Activity of Ruthenium (II) Cyclopentadienyl-Derived Complexes with Nitrogen Coordinated Ligands. Bioinorganic Chemistry and Applications, 2010, 2010, 1-11.	1.8	35
31	[RuCl₂(Î·⁶-p-cymene)(P*)] and [RuCl₂(Î²-P*-Î·⁶-arene)] Complexes Containing P-Stereogenic Phosphines. Activity in Transfer Hydrogenation and Interactions with DNA. Organometallics, 2013, 32, 2344-2362.	1.1	35
32	Engineered nonviral nanocarriers for intracellular gene delivery applications. Biomedical Materials (Bristol), 2012, 7, 054106.	1.7	33
33	Dual T₁/T₂ MRI contrast agent based on hybrid SPION@coordination polymer nanoparticles. RSC Advances, 2015, 5, 86779-86783.	1.7	33
34	Conserved effects and altered trafficking of Cetuximab antibodies conjugated to gold nanoparticles with precise control of their number and orientation. Nanoscale, 2017, 9, 6111-6121.	2.8	33
35	Sustainable synthesis of luminescent CdTe quantum dots coated with modified silica mesoporous nanoparticles: Towards new protein scavengers and smart drug delivery carriers. Dyes and Pigments, 2019, 161, 360-369.	2.0	32
36	Functional segregation and emerging role of ciliaâ€related cytosolic carboxypeptidases (CCPs). FASEB Journal, 2013, 27, 424-431.	0.2	31

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37	Mechanism of action of potato carboxypeptidase inhibitor (PCI) as an EGF blocker. Cancer Letters, 2005, 226, 169-184.	3.2	30
38	Pt(IV)-based nanoscale coordination polymers: Antitumor activity, cellular uptake and interactions with nuclear DNA. Chemical Engineering Journal, 2018, 340, 94-102.	6.6	30
39	Copper(II) N,N,O-Chelating Complexes as Potential Anticancer Agents. Inorganic Chemistry, 2021, 60, 2939-2952.	1.9	30
40	New ruthenium(II) mixed metallocene derived complexes: Synthesis, characterization by X-ray diffraction and evaluation on DNA interaction by atomic force microscopy. Inorganica Chimica Acta, 2010, 363, 3765-3775.	1.2	28
41	Biocompatible polydopamine-like particles for the removal of heavy metals at extremely low concentrations. RSC Advances, 2016, 6, 40058-40066.	1.7	28
42	Versatile ironâ€“catechol-based nanoscale coordination polymers with antiretroviral ligand functionalization and their use as efficient carriers in HIV/AIDS therapy. Biomaterials Science, 2019, 7, 178-186.	2.6	27
43	Role of Kinetic Intermediates in the Folding of Leech Carboxypeptidase Inhibitor. Journal of Biological Chemistry, 2004, 279, 37261-37270.	1.6	26
44	C-terminomics Screen for Natural Substrates of Cytosolic Carboxypeptidase 1 Reveals Processing of Acidic Protein C termini. Molecular and Cellular Proteomics, 2015, 14, 177-190.	2.5	25
45	Silica Coated Iron/Iron Oxide Nanoparticles as a Nano-Platform for T2 Weighted Magnetic Resonance Imaging. Molecules, 2019, 24, 4629.	1.7	24
46	Antitumor and antiparasitic activity of novel ruthenium compounds with polycyclic aromatic ligands. Journal of Inorganic Biochemistry, 2015, 150, 38-47.	1.5	22
47	New iron cyclopentadienyl complexes bearing different phosphane co-ligands: Structural factors vs. cytotoxicity. Journal of Organometallic Chemistry, 2017, 852, 34-42.	0.8	22
48	Synthesis, DNA interaction and cytotoxicity studies of cis-{[1, 2-bis(aminomethyl)cyclohexane]dihalo}platinum(II) complexes. Journal of Inorganic Biochemistry, 2008, 102, 973-987.	1.5	21
49	New iron(II) cyclopentadienyl derivative complexes: Synthesis and antitumor activity against human leukemia cancer cells. Journal of Organometallic Chemistry, 2014, 756, 52-60.	0.8	21
50	Synthesis, biological evaluation and SAR studies of novel bicyclic antitumor platinum(IV) complexes. European Journal of Medicinal Chemistry, 2014, 83, 374-388.	2.6	21
51	Evaluation of the metal-dependent cytotoxic behaviour of coordination compounds. Dalton Transactions, 2018, 47, 4902-4908.	1.6	21
52	Biocatalytic synthesis, antimicrobial properties and toxicity studies of arginine derivative surfactants. Amino Acids, 2015, 47, 1465-1477.	1.2	20
53	Synthesis, Characterization and Biological Activity of trans-Platinum(II) and trans-Platinum(IV) Complexes with 4-Hydroxymethylpyridine. ChemBioChem, 2005, 6, 2068-2077.	1.3	19
54	DNA binding studies of a series of cis-[Pt(Am)2X2] complexes (Am=inert amine, X=labile carboxylato) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	19

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55	Synthesis of functionalized fluorescent silver nanoparticles and their toxicological effect in aquatic environments (Goldfish) and HEPG2 cells. Frontiers in Chemistry, 2013, 1, 29.	1.8	19
56	Secondary Binding Site of the Potato Carboxypeptidase Inhibitor. Contribution to Its Structure, Folding, and Biological Properties. Biochemistry, 2004, 43, 7973-7982.	1.2	18
57	Amyloid Formation by Human Carboxypeptidase D Transthyretin-like Domain under Physiological Conditions. Journal of Biological Chemistry, 2014, 289, 33783-33796.	1.6	18
58	Integrated approach to produce a recombinant, hisâ€tagged human Î±â€galactosidase a in mammalian cells. Biotechnology Progress, 2011, 27, 1206-1217.	1.3	17
59	Inhibitors of aldehyde dehydrogenases of the 1A subfamily as putative anticancer agents: Kinetic characterization and effect on human cancer cells. Chemico-Biological Interactions, 2019, 306, 123-130.	1.7	17
60	Human pancreatic ribonuclease 1. Cancer, 2000, 89, 1252-1258.	2.0	16
61	Non-toxic fluorescent alanineâ€“fluorescein probe with green emission for dual colorimetric/fluorimetric sensing. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 269, 17-26.	2.0	16
62	The novel structure of a cytosolic M14 metallocarboxypeptidase (CCP) from Pseudomonas aeruginosa : a model for mammalian CCPs. FASEB Journal, 2012, 26, 3754-3764.	0.2	15
63	Crystal structure and mechanism of human carboxypeptidase O: Insights into its specific activity for acidic residues. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3932-E3939.	3.3	15
64	A novel quinoline molecular probe and the derived functionalized gold nanoparticles: Sensing properties and cytotoxicity studies in MCF-7 human breast cancer cells. Journal of Inorganic Biochemistry, 2014, 137, 115-122.	1.5	14
65	Dualâ€Fluorescent Nanoscale Coordination Polymers via a Mixedâ€Ligand Synthetic Strategy and Their Use for Multichannel Imaging. ChemNanoMat, 2018, 4, 183-193.	1.5	14
66	Influence of specific growth rate over the secretory expression of recombinant potato carboxypeptidase inhibitor in fed-batch cultures of Escherichia coli. Process Biochemistry, 2010, 45, 1334-1341.	1.8	13
67	Crystal structures of N6-modified-amino acid related nucleobase analogs (II): hybrid adenine-Î²-alanine and adenine-GABA molecules. New Journal of Chemistry, 2019, 43, 9680-9688.	1.4	13
68	Timeâ€Dependent Cytotoxic Properties of Terpyridineâ€Based Copper Complexes. ChemBioChem, 2020, 21, 2348-2355.	1.3	12
69	Structureâ€“Function Analysis of the Short Splicing Variant Carboxypeptidase Encoded by Drosophila melanogaster silver. Journal of Molecular Biology, 2010, 401, 465-477.	2.0	11
70	New Cyclams and Their Copper(II) and Iron(III) Complexes: Synthesis and Potential Application as Anticancer Agents. ChemMedChem, 2019, 14, 770-778.	1.6	11
71	Studying the reactivity of â€œoldâ€•Cu(II) complexes for â€œnovelâ€•anticancer purposes. Journal of Inorganic Biochemistry, 2019, 195, 51-60.	1.5	11
72	Synthesis and Validation of a Bioinspired Catechol-Functionalized Pt(IV) Prodrug for Preclinical Intranasal Glioblastoma Treatment. Cancers, 2022, 14, 410.	1.7	9

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73	pHâ€Responsive Relaxometric Behaviour of Coordination Polymer Nanoparticles Made of a Stable Macrocyclic Gadolinium Chelate. Chemistry - A European Journal, 2016, 22, 13162-13170.	1.7	8
74	Biochemical characterization of the YBPCI miniprotein, the first carboxypeptidase inhibitor isolated from Yellow Bell Pepper (Capsicum annuum L). A novel contribution to the knowledge of miniproteins stability. Protein Expression and Purification, 2018, 144, 55-61.	0.6	8
75	Synthesis and Structural/Functional Characterization of Selective M14 Metallocarboxypeptidase Inhibitors Based on Phosphinic Pseudopeptide Scaffold: Implications on the Design of Specific Optical Probes. Journal of Medicinal Chemistry, 2019, 62, 1917-1931.	2.9	8
76	Study and Preparation of Multifunctional Poly(L-Lysine)@Hyaluronic Acid Nanopolyplexes for the Effective Delivery of Tumor Suppressive MiR-34a into Triple-Negative Breast Cancer Cells. Materials, 2020, 13, 5309.	1.3	8
77	Luminescent silicon-based nanocarrier for drug delivery in colorectal cancer cells. Dyes and Pigments, 2020, 181, 108393.	2.0	8
78	Biochemical characterization of a novel carboxypeptidase inhibitor from a variety of Andean potatoes. Phytochemistry, 2015, 120, 36-45.	1.4	7
79	The molecular shape and the field similarities as criteria to interpret SAR studies for fragment-based design of platinum(IV) anticancer agents. Correlation of physicochemical properties with cytotoxicity. Journal of Molecular Graphics and Modelling, 2016, 69, 39-60.	1.3	7
80	Squaramide-Based Pt(II) Complexes as Potential Oxygen-Regulated Light-Triggered Photocages. Inorganic Chemistry, 2018, 57, 15517-15525.	1.9	7
81	Biochemical and MALDI-TOF Mass Spectrometric Characterization of a Novel Native and Recombinant Cystine Knot Miniprotein from Solanum tuberosum subsp. andigenum cv. ChurqueÃ±a. International Journal of Molecular Sciences, 2018, 19, 678.	1.8	7
82	Iridium(III) coordination of N(6) modified adenine derivatives with aminoacid chains. Journal of Inorganic Biochemistry, 2020, 205, 111000.	1.5	7
83	Carboxypeptidase inhibition by NvCI suppresses airway hyperreactivity in a mouse asthma model. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 2234-2237.	2.7	6
84	Substrate specificity of human metallocarboxypeptidase D: Comparison of the two active carboxypeptidase domains. PLoS ONE, 2017, 12, e0187778.	1.1	6
85	Insights into the Two-Domain Architecture of the Metallocarboxypeptidase Inhibitor from the Ascaris Parasite Inferred from the Mechanism of Its Oxidative Folding. Biochemistry, 2009, 48, 8225-8232.	1.2	5
86	Cytotoxicity studies of [PtCl2(H2bim)] (H2bim=2,2â€²-biimidazole): Study of its interaction with a small protein PCI (potato carboxypeptidase inhibitor). Inorganica Chimica Acta, 2009, 362, 946-952.	1.2	4
87	Identification of Carboxypeptidase Substrates by C-Terminal COFRADIC. Methods in Molecular Biology, 2017, 1574, 115-133.	0.4	4
88	Characterization, Recombinant Production and Structure-Function Analysis of NvCI, A Picomolar Metallocarboxypeptidase Inhibitor from the Marine Snail Nerita versicolor. Marine Drugs, 2019, 17, 511.	2.2	4
89	Surface engineering of silica nanoparticles with a gadoliniumâ€“PCTA complex for efficient T₁-weighted MRI contrast agents. New Journal of Chemistry, 2020, 44, 18031-18047.	1.4	4
90	Microplate Assay to Study Carboxypeptidase A Inhibition in Andean Potatoes. Bio-protocol, 2016, 6, .	0.2	4

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91	Intranasal Administration of Catechol-Based Pt(IV) Coordination Polymer Nanoparticles for Glioblastoma Therapy. Nanomaterials, 2022, 12, 1221.	1.9	4
92	Study by HPLC-MS of the interaction of platinum antitumor complexes with potato carboxypeptidase inhibitor (PCI). Bioorganic and Medicinal Chemistry, 2008, 16, 6832-6840.	1.4	3
93	Substrate Specificity and Structural Modeling of Human Carboxypeptidase Z: A Unique Protease with a Frizzled-Like Domain. International Journal of Molecular Sciences, 2020, 21, 8687.	1.8	3
94	Nanoscale coordination polymers for medicine and sensors. Advances in Inorganic Chemistry, 2020, , 3-31.	0.4	3
95	Synthesis of Coâ€“Organosilaneâ€“Au Nanocomposites via a Controlled Interphasic Reduction. Chemistry of Materials, 2012, 24, 4019-4027.	3.2	2
96	Recombinant expression of disulfide-rich proteins: carboxypeptidase inhibitors as model proteins. Microbial Cell Factories, 2006, 5, P47.	1.9	1
97	Design and synthesis of new antitumor agents with the 1,7-epoxycyclononane framework. Study of their anticancer action mechanism by a model compound. Bioorganic and Medicinal Chemistry, 2018, 26, 3379-3398.	1.4	1
98	Functionalized azobenzene platinum(II) complexes as putative anticancer compounds. Journal of Biological Inorganic Chemistry, 2021, 26, 435-453.	1.1	1
99	Synthesis and In Vitro Studies of Photoactivatable Semisquaraine-type Pt(II) Complexes. Inorganic Chemistry, 2022, 61, 7729-7745.	1.9	1
100	Integrated Approach to Optimize Transient Gene Expression in Mammalian Cells: Production of a Recombinant Human Alpha-galactosidase A. Journal of Biotechnology, 2010, 150, 436-437.	1.9	0
101	Cyclam-based compounds as a novel class of antibacterial and antitumoral agents. , 0, , .		0