

Lisa M PÃ©rez

List of Publications by Year in descending order

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80
papers

2,838
citations

136950

32
h-index

182427

51
g-index

82
all docs

82
docs citations

82
times ranked

3534
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion-π Interactions as Controlling Elements in Self-Assembly Reactions of Ag(I) Complexes with π-Acidic Aromatic Rings. <i>Journal of the American Chemical Society</i> , 2006, 128, 5895-5912.	13.7	302
2	Universal Peptidomimetics. <i>Journal of the American Chemical Society</i> , 2011, 133, 462-477.	13.7	138
3	Gold-Silane and Gold-Stannane Complexes: Saturated Molecules as π-Acceptor Ligands. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9892-9895.	13.8	119
4	Studies of Ligand Exchange in N-Heterocyclic Carbene Silver(I) Complexes. <i>Organometallics</i> , 2012, 31, 4063-4071.	2.3	88
5	Distinguishing between Phosphorylated and Nonphosphorylated Peptides with Ion Mobility-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2002, 1, 303-306.	3.7	86
6	Unsupported intermolecular argentophilic interaction in the dimer of trinuclear silver(I) 3,5-diphenylpyrazolates. <i>Inorganica Chimica Acta</i> , 2005, 358, 1657-1662.	2.4	83
7	Homologous Series of Redox-Active, Dinuclear Cations [M ₂ (O ₂ CCH ₃) ₂ (pynp) ₂] ²⁺ (M = Mo, Ru, Rh) with the Bridging Ligand 2-(2-Pyridyl)-1,8-naphthyridine (pynp). <i>Inorganic Chemistry</i> , 2002, 41, 1523-1533.	4.0	82
8	Polyunsaturated Dicarboxylate Tethers Connecting Dimolybdenum Redox and Chromophoric Centers: Absorption Spectra and Electronic Structures. <i>Journal of the American Chemical Society</i> , 2003, 125, 5486-5492.	13.7	71
9	Novel Binding Interactions of the DNA Fragment d(pGpG) Cross-Linked by the Antitumor Active Compound Tetrakis(1/4-carboxylato)dirhodium(II,II). <i>Journal of the American Chemical Society</i> , 2003, 125, 10714-10724.	13.7	71
10	Unprecedented Head-to-Head Conformers of d(GpG) Bound to the Antitumor Active Compound Tetrakis(1/4-carboxylato)dirhodium(II,II). <i>Journal of the American Chemical Society</i> , 2003, 125, 10703-10713.	13.7	70
11	Analysis of a Pentacoordinate Iron Dicarbonyl as Synthetic Analogue of the Hmd or Mono-iron Hydrogenase Active Site. <i>Chemistry - A European Journal</i> , 2010, 16, 3083-3089.	3.3	69
12	A Mercury-Antimony Interaction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6357-6360.	13.8	66
13	A Theoretical Study of the Primary Oxo Transfer Reaction of a Dioxo Molybdenum(VI) Compound with Imine Thiolate Chelating Ligands: A Molybdenum Oxotransferase Analogue. <i>Journal of the American Chemical Society</i> , 2001, 123, 3995-4002.	13.7	63
14	Unique Reactivity of a Tetradentate N ₂ S ₂ Complex of Nickel: Intermediates in the Production of Sulfur Oxygenates. <i>Inorganic Chemistry</i> , 2002, 41, 1837-1844.	4.0	61
15	Observation of Conserved Solution-Phase Secondary Structure in Gas-Phase Tryptic Peptides. <i>Journal of the American Chemical Society</i> , 2002, 124, 4214-4215.	13.7	60
16	Mechanistic Investigation of the Oxygen-Atom-Transfer Reactivity of Dioxo-molybdenum(VI) Complexes. <i>Chemistry - A European Journal</i> , 2006, 12, 7501-7509.	3.3	56
17	Pyrrrolinone-Pyrrrolidine Oligomers as Universal Peptidomimetics. <i>Journal of the American Chemical Society</i> , 2011, 133, 12350-12353.	13.7	55
18	Evaluation of Multivalent Dendrimers Based on Melamine: Kinetics of Thiol-Disulfide Exchange Depends on the Structure of the Dendrimer. <i>Journal of the American Chemical Society</i> , 2003, 125, 5086-5094.	13.7	54

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19	Thermal Decomposition Pathways of Hydroxylamine: Theoretical Investigation on the Initial Steps. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9262-9269.	2.5	52
20	A short, unsupported Cu(i)âˆ©Cu(i) interaction, 2.65 Å..., in a dinuclear guanidine chloride complex. <i>Chemical Communications</i> , 2010, 46, 136-138.	4.1	48
21	Cyclic Polyamidato Dianions as Bridges between Mo24+Units:Âˆ Synthesis, Crystal Structures, Electrochemistry, Absorption Spectra, and Electronic Structures. <i>Journal of the American Chemical Society</i> , 2003, 125, 8900-8910.	13.7	46
22	Reaction of the 1,8-Bis(diphenylmethylium)naphthalenediyl Dication with Fluoride:âˆ© Formation of a Cation Containing a Câˆ©Fâˆ©C Bridge. <i>Journal of the American Chemical Society</i> , 2004, 126, 8189-8196.	13.7	43
23	Triazine Dendrimers for Drug Delivery: Evaluation of Solubilization Properties, Activity in Cell Culture, and In Vivo Toxicity of a Candidate Vehicle. <i>Supramolecular Chemistry</i> , 2003, 15, 607-616.	1.2	42
24	Synthesis, Structures, and Properties of Mixed Dithiolene-Carbonyl and Dithiolene-Phosphine Complexes of Tungsten. <i>Inorganic Chemistry</i> , 2009, 48, 2103-2113.	4.0	41
25	Dinuclear and Tetranuclear Goldâˆ©Nitrogen Complexes. Solvent Influences on Oxidation and Nuclearity of Gold Guanidinate Derivatives. <i>Inorganic Chemistry</i> , 2007, 46, 11165-11172.	4.0	38
26	Synthesis and Characterization of a Thiol-Tethered Tripyridyl Porphyrin on Au(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 6110-6118.	3.1	37
27	Exploring Key Orientations at Proteinâˆ©Protein Interfaces with Small Molecule Probes. <i>Journal of the American Chemical Society</i> , 2013, 135, 167-173.	13.7	37
28	The molecular basis of pyrazinamide activity on <i>Mycobacterium tuberculosis</i> PanD. <i>Nature Communications</i> , 2020, 11, 339.	12.8	37
29	Experimental and Computational Studies of Charge-Transfer and Reduction Products of 1, 4, 5, 8, 9, 11-Hexaazatriphenylene-Hexacarbonitrile: HAT-(CN)6. <i>Journal of Cluster Science</i> , 2004, 15, 503-530.	3.3	35
30	Synthesis of Odd Generation Triazine Dendrimers Using a Divergent, Macromonomer Approach. <i>Organic Letters</i> , 2010, 12, 1148-1151.	4.6	35
31	Mechanistic Investigations of the ZnCl₂-Mediated Tandem Mukaiyama Aldol Lactonization: Evidence for Asynchronous, Concerted Transition States and Discovery of 2-Oxopyridyl Ketene Acetal Variants. <i>Journal of the American Chemical Society</i> , 2012, 134, 3084-3094.	13.7	35
32	Structure and thermodynamic stability of the OsC and OsC2 molecules by theoretical calculations and by Knudsen cell mass spectrometry. <i>Journal of Chemical Physics</i> , 2001, 115, 4496-4501.	3.0	32
33	Hydrogen-Bonding and Îˆ Base-Stacking Interactions Are Coupled in DNA, As Suggested by Calculated and Experimental Trans-Hbond Deuterium Isotope Shifts. <i>Journal of the American Chemical Society</i> , 2007, 129, 11298-11299.	13.7	32
34	A divergent route towards single-chemical entity triazine dendrimers with opportunities for structural diversity. <i>New Journal of Chemistry</i> , 2007, 31, 1283.	2.8	32
35	Factors That Influence Helical Preferences for Singly Charged Gas-Phase Peptide Ions: The Effects of Multiple Potential Charge-Carrying Sites. <i>Journal of Physical Chemistry B</i> , 2010, 114, 809-816.	2.6	31
36	Synthesis and Structure of a Dinuclear Gold(II) Complex with Terminal Fluoride Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 4238-4240.	4.0	31

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37	Photocrystallographic Observation of Halide-Bridged Intermediates in Halogen Photoeliminations. <i>Journal of the American Chemical Society</i> , 2014, 136, 15346-15355.	13.7	31
38	Genetically Engineered Synthesis and Structural Characterization of Cobalt ^{II} -Precorrin 5A and ^{II} 5B, Two New Intermediates on the Anaerobic Pathway to Vitamin B12: A Definition of the Roles of the CbiF and CbiG Enzymes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9971-9978.	13.7	27
39	Highly Luminescent Linear Complex Arrays of up to Eight Cuprous Centers. <i>Chemistry - A European Journal</i> , 2016, 22, 2396-2405.	3.3	27
40	Evaluating minimalist mimics by exploring key orientations on secondary structures (EKOS). <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7789.	2.8	26
41	Computational Insights into Uranium Complexes Supported by Redox-Active λ^2 -Diimine Ligands. <i>Inorganic Chemistry</i> , 2012, 51, 2058-2064.	4.0	25
42	A Multifaceted Secondary Structure Mimic Based On Piperidine ϵ -piperidinones. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3594-3598.	13.8	25
43	An amber obligate active site-directed ligand evolution technique for phage display. <i>Nature Communications</i> , 2020, 11, 1392.	12.8	25
44	The contributions of molecular framework to IMS collision cross-sections of gas-phase peptide ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1593-1602.	2.8	22
45	Thermal Stability of Metal-Organic Frameworks (MOFs): Concept, Determination, and Model Prediction Using Computational Chemistry and Machine Learning. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5853-5862.	3.7	21
46	Mimicking PAMAM Dendrimers with Amphoteric, Hybrid Triazine Dendrimers: A Comparison of Dispersity and Stability. <i>Macromolecules</i> , 2009, 42, 6723-6732.	4.8	19
47	Carbon ϵ -Bromine Bond Formation through a Nickel-Centered Spin-Crossing Mechanism. <i>Organometallics</i> , 2011, 30, 6365-6371.	2.3	19
48	Measuring the internal energies of species emitted from hypervelocity nanoparticle impacts on surfaces using recalibrated benzylpyridinium probe ions. <i>Journal of Chemical Physics</i> , 2013, 138, 214301.	3.0	17
49	Dearomatization of the PCP Pincer Ligand in a Re ^V Oxo Complex. <i>Chemistry - A European Journal</i> , 2018, 24, 13754-13757.	3.3	17
50	Correlations between secondary structure- and protein ϵ -protein interface-mimicry: the interface mimicry hypothesis. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 3267-3274.	2.8	17
51	Utilizing Nearest-Neighbor Interactions To Alter Charge Transport Mechanisms in Molecular Assemblies of Porphyrins on Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13569-13579.	3.1	16
52	Theoretical Study of the Thermal Decomposition of N,N'-Diacyl-N,N'-Dialkoxyhydrazines: A Comparison of HF, MP2, and DFT. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6247-6252.	2.5	15
53	Quantitative Structure-Property Relationship (QSPR) models for Minimum Ignition Energy (MIE) prediction of combustible dusts using machine learning. <i>Powder Technology</i> , 2020, 372, 227-234.	4.2	15
54	A new copper containing MALDI matrix that yields high abundances of [Peptide + Cu] ⁺ ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1263-1271.	2.8	14

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55	Diruthenium Naphthalene and Anthracene Complexes Containing a Doubly Linked Dicyclopentadienyl Ligand. <i>Organometallics</i> , 2012, 31, 4838-4848.	2.3	14
56	Effects of charge states, charge sites and side chain interactions on conformational preferences of a series of model peptide ions. <i>Analyst</i> , 2015, 140, 6933-6944.	3.5	14
57	Computational and Empirical Trans-hydrogen Bond Deuterium Isotope Shifts Suggest that N1â€“N3 A:U Hydrogen Bonds of RNA are Shorter than those of A:T Hydrogen Bonds of DNA. <i>Journal of Biomolecular NMR</i> , 2006, 34, 229-236.	2.8	13
58	Synthesis and cellular effects of cycloterpenals: Cyclohexadienal-based activators of neurite outgrowth. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7573-7581.	3.0	12
59	Divergent synthesis of triazine dendrimers using a trimethylene-dipiperidine linker that increases efficiency, simplifies analysis, and improves product solubility. <i>Tetrahedron Letters</i> , 2010, 51, 1631-1634.	1.4	12
60	¹¹³ Cd NMR Determination of the Binding Parameters of Alicyclic Epoxides to [Hydrotris(3-phenylpyrazol-1-yl)borate]Cd(II) Acetate. <i>Organometallics</i> , 2004, 23, 5286-5290.	2.3	11
61	Cyanide-bridged [Co ^{II} ₂ M ^{II} ₂] and [Co ^{II} ₂ M ^{II} ₂] Complexes Based on the [Co ^{II} (triphos)(CN) ₂] Building Block: Syntheses, Structures, Magnetic Properties, and Density Functional Theoretical Studies. <i>Chemistry - A European Journal</i> , 2010, 16, 7164-7172.	3.3	11
62	Navigating the Light-Sheet Image Analysis Software Landscape: Concepts for Driving Cohesion From Data Acquisition to Analysis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 739079.	3.7	11
63	Cellulose Nanocrystal-Enabled Tailoring of the Interface in Carbon Nanotube- and Graphene Nanoplatelet-Carbon Fiber Polymer Composites: Implications for Structural Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 1284-1295.	5.0	11
64	Design criteria for minimalist mimics of proteinâ€™ protein interface segments. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 908-915.	2.8	10
65	Hydrogel Synthesis and Stabilization via Tetrazine Clickâ€“Induced Secondary Interactions. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000287.	3.9	10
66	Expanding the Scope of Oligo-pyrrolinoneâ€™ Pyrrolidines as Proteinâ€™ Protein Interface Mimics. <i>Journal of Organic Chemistry</i> , 2013, 78, 4823-4833.	3.2	8
67	Minimum Ignition Energy (MIE) prediction models for ignition sensitive fuels using machine learning methods. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 69, 104343.	3.3	8
68	ELIXIR-A: An Interactive Visualization Tool for Multi-Target Pharmacophore Refinement. <i>ACS Omega</i> , 2022, 7, 12707-12715.	3.5	6
69	The role of triplet states in the long wavelength absorption region of bromine nitrate. <i>Journal of Chemical Physics</i> , 2003, 119, 7864-7870.	3.0	5
70	Quantum Chemical Modeling of the Effects of Hydrated Lime (Calcium Hydroxide) as a Filler in Bituminous Materials. <i>ACS Omega</i> , 2021, 6, 3130-3139.	3.5	5
71	Regional Collaborations Supporting Cyberinfrastructure-Enabled Research During a Pandemic. , 2022, ,		4
72	Capture chromatography with mixed-mode resins: A case study with recombinant human thioredoxin from <i>Escherichia coli</i> . <i>Journal of Chromatography A</i> , 2020, 1625, 461327.	3.7	3

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73	Exploring Remote Learning Methods for User Training in Research Computing. Journal of Computational Science Education, 2021, 12, 11-17.	0.3	3
74	Theoretical study of the biologically important dioxo diiron diamond core structures. Theoretical Chemistry Accounts, 2008, 120, 467-478.	1.4	2
75	Metal-templated, Tight Loop Conformation of a Cys-X-Cys Biomimetic Assembles a Dimanganese Complex. Angewandte Chemie - International Edition, 2020, 59, 3645-3649.	13.8	2
76	Study of phase behavior of 2,6-lutidine, 2,6-lutidine-N-oxide and water mixture using UNIQUAC model with interaction parameters determined by molecular simulations. Thermochemica Acta, 2019, 671, 110-118.	2.7	1
77	A Biomimetic-Computational Approach to Optimizing the Quantum Efficiency of Photovoltaics. Microscopy and Microanalysis, 2015, 21, 1651-1652.	0.4	0
78	Metal-templated, Tight Loop Conformation of a Cys-X-Cys Biomimetic Assembles a Dimanganese Complex. Angewandte Chemie, 2020, 132, 3674-3678.	2.0	0
79	Incorporating Complexity in Computing Camps for High School Students - A Report on the Summer Computing Academy Program at Texas A&M University. Journal of Computational Science Education, 2020, 11, 12-20.	0.3	0
80	Expanding the Reach of Research Computing: A Landscape Study. , 2022, , .		0