

Luigi Di Costanzo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4691380/publications.pdf>

Version: 2024-02-01

84
papers

7,136
citations

109321

35
h-index

60623

81
g-index

86
all docs

86
docs citations

86
times ranked

9484
citing authors

#	ARTICLE	IF	CITATIONS
1	Benzodifuran-based fluorescent brighteners: A novel platform for plant cell wall imaging. <i>Dyes and Pigments</i> , 2022, 199, 110071.	3.7	3
2	A Water Soluble 2-Phenyl-5-(pyridin-3-yl)-1,3,4-oxadiazole Based Probe: Antimicrobial Activity and Colorimetric/Fluorescence pH Response. <i>Molecules</i> , 2022, 27, 1824.	3.8	5
3	Thermo-Induced Fluorochromism in Two AIE Zinc Complexes: A Deep Insight into the Structure-Property Relationship. <i>Molecules</i> , 2022, 27, 2551.	3.8	3
4	Colorimetric recognition of multiple first-row transition metals: A single water-soluble chemosensor in acidic and basic conditions. <i>Dyes and Pigments</i> , 2021, 184, 108832.	3.7	15
5	Visual pH Sensors: From a Chemical Perspective to New Bioengineered Materials. <i>Molecules</i> , 2021, 26, 2952.	3.8	34
6	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021, 10, .	6.0	31
7	RCSB Protein Data Bank: powerful new tools for exploring 3D structures of biological macromolecules for basic and applied research and education in fundamental biology, biomedicine, biotechnology, bioengineering and energy sciences. <i>Nucleic Acids Research</i> , 2021, 49, D437-D451.	14.5	918
8	Stimuli-Responsive Zinc (II) Coordination Polymers: A Novel Platform for Supramolecular Chromic Smart Tools. <i>Polymers</i> , 2021, 13, 3712.	4.5	9
9	A Novel L-Shaped Fluorescent Probe for AIE Sensing of Zinc (II) Ion by a DR/NIR Response. <i>Molecules</i> , 2021, 26, 7347.	3.8	6
10	RCSB Protein Data Bank: Enabling biomedical research and drug discovery. <i>Protein Science</i> , 2020, 29, 52-65.	7.6	223
11	Atomic Details of Carbon-Based Nanomolecules Interacting with Proteins. <i>Molecules</i> , 2020, 25, 3555.	3.8	13
12	A Highly Water-Soluble Fluorescent and Colorimetric pH Probe. <i>Crystals</i> , 2020, 10, 83.	2.2	11
13	A Novel DR/NIR T-Shaped AIEgen: Synthesis and X-Ray Crystal Structure Study. <i>Crystals</i> , 2020, 10, 269.	2.2	20
14	Novel Solid-State Emissive Polymers and Polymeric Blends from a T-Shaped Benzodifuran Scaffold: A Comparative Study. <i>Polymers</i> , 2020, 12, 718.	4.5	3
15	Impact of the Protein Data Bank Across Scientific Disciplines. <i>Data Science Journal</i> , 2020, 19, 25.	1.3	17
16	Two tridentate pyridinyl-hydrazone zinc(II) complexes as fluorophores for blue emitting layers. <i>Journal of Molecular Structure</i> , 2019, 1197, 672-680.	3.6	26
17	An Amphiphilic Pyridinoyl-hydrazone Probe for Colorimetric and Fluorescence pH Sensing. <i>Molecules</i> , 2019, 24, 3833.	3.8	26
18	The Effect of Bulky Substituents on Two π -Conjugated Mesogenic Fluorophores. Their Organic Polymers and Zinc-Bridged Luminescent Networks. <i>Polymers</i> , 2019, 11, 1379.	4.5	26

#	ARTICLE	IF	CITATIONS
19	Highly efficient dicyano-phenylenevinylene fluorophore as polymer dopant or zinc-driven self-assembling building block. <i>Inorganic Chemistry Communication</i> , 2019, 104, 145-149.	3.9	30
20	Fluorescence pH-dependent sensing of Zn(II) by a tripodal ligand. A comparative X-ray and DFT study. <i>Journal of Luminescence</i> , 2019, 212, 200-206.	3.1	34
21	A symmetrical azo-based fluorophore and the derived salen multipurpose framework for emissive layers. <i>Inorganic Chemistry Communication</i> , 2019, 104, 186-189.	3.9	26
22	A Highly Efficient White Luminescent Zinc (II) Based Metallopolymer by RGB Approach. <i>Polymers</i> , 2019, 11, 1712.	4.5	17
23	Protein Data Bank: the single global archive for 3D macromolecular structure data. <i>Nucleic Acids Research</i> , 2019, 47, D520-D528.	14.5	671
24	RCSB Protein Data Bank: biological macromolecular structures enabling research and education in fundamental biology, biomedicine, biotechnology and energy. <i>Nucleic Acids Research</i> , 2019, 47, D464-D474.	14.5	918
25	A real-time tripodal colorimetric/fluorescence sensor for multiple target metal ions. <i>Dyes and Pigments</i> , 2018, 155, 249-257.	3.7	40
26	Amino acid modifications for conformationally constraining naturally occurring and engineered peptide backbones: Insights from the Protein Data Bank. <i>Biopolymers</i> , 2018, 109, e23230.	2.4	6
27	Data on a real-time tripodal colorimetric/fluorescence sensor for multiple target metal ions. <i>Data in Brief</i> , 2018, 19, 2119-2125.	1.0	11
28	Worldwide Protein Data Bank biocuration supporting open access to high-quality 3D structural biology data. <i>Database: the Journal of Biological Databases and Curation</i> , 2018, 2018, .	3.0	45
29	Solid-State Highly Efficient DR Mono and Poly-dicyano-phenylenevinylene Fluorophores. <i>Molecules</i> , 2018, 23, 1505.	3.8	28
30	AIE/ACQ Effects in Two DR/NIR Emitters: A Structural and DFT Comparative Analysis. <i>Molecules</i> , 2018, 23, 1947.	3.8	37
31	Photophysical Properties of Luminescent Zinc(II)-Pyridinylloxadiazole Complexes and their Glassy Self-Assembly Networks. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2709-2716.	2.0	33
32	Analysis of impact metrics for the Protein Data Bank. <i>Scientific Data</i> , 2018, 5, 180212.	5.3	24
33	OUP accepted manuscript. <i>Nucleic Acids Research</i> , 2017, 45, D271-D281.	14.5	619
34	From cadmium(II)-aroylhydrazone complexes to metallopolymers with enhanced photoluminescence. A structural and DFT study. <i>Inorganica Chimica Acta</i> , 2017, 458, 129-137.	2.4	29
35	OneDep: Unified wwPDB System for Deposition, Biocuration, and Validation of Macromolecular Structures in the PDB Archive. <i>Structure</i> , 2017, 25, 536-545.	3.3	130
36	Synthesis, spectroscopic properties and DFT calculations of a novel multipolar azo dye and its zinc(II) complex. <i>Inorganic Chemistry Communication</i> , 2017, 84, 103-108.	3.9	30

#	ARTICLE	IF	CITATIONS
37	Using the Tools and Resources of the RCSB Protein Data Bank. <i>Current Protocols in Bioinformatics</i> , 2016, 55, 1.9.1-1.9.35.	25.8	8
38	High Solid State Photoluminescence Quantum Yields and Effective Color Tuning in Polyvinylpyridine Based Zinc(II) Metallopolymers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1516-1522.	2.2	31
39	Color Tuning and Noteworthy Photoluminescence Quantum Yields in Crystalline Mono- and Dinuclear Zn(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5916-5924.	2.0	30
40	Small molecule annotation for the Protein Data Bank. <i>Database: the Journal of Biological Databases and Curation</i> , 2014, 2014, bau116-bau116.	3.0	26
41	Series of O, N, O-Tridentate Ligands Zinc(II) Complexes with High Solid State Photoluminescence Quantum Yield. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2695-2703.	2.0	31
42	Fluorescent metallopolymers with Zn(II) in a Schiff base/phenoxide coordination environment. <i>Inorganic Chemistry Communication</i> , 2013, 29, 138-140.	3.9	31
43	Trendspotting in the Protein Data Bank. <i>FEBS Letters</i> , 2013, 587, 1036-1045.	2.8	74
44	Binding of α , β -Disubstituted Amino Acids to Arginase Suggests New Avenues for Inhibitor Design. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5432-5443.	6.4	62
45	Structure of anticancer ruthenium half-sandwich complex bound to glycogen synthase kinase 3 β . <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 45-50.	2.6	44
46	Two aminobenzothiazole derivatives for Pd(II) and Zn(II) coordination. <i>Inorganic Chemistry Communication</i> , 2011, 14, 46-48.	3.9	31
47	2-Aminoimidazole Amino Acids as Inhibitors of the Binuclear Manganese Metalloenzyme Human Arginase I. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4266-4276.	6.4	42
48	Design, Synthesis, and Structural Analysis of d,l-Mixed Polypyrrolinones. 2. Macrocyclic Hexapyrrolinones. <i>Organic Letters</i> , 2010, 12, 2994-2997.	4.6	6
49	Inhibition of human arginase I by substrate and product analogues. <i>Archives of Biochemistry and Biophysics</i> , 2010, 496, 101-108.	3.0	59
50	Aldo-keto reductases in which the conserved catalytic histidine is substituted. <i>Chemico-Biological Interactions</i> , 2009, 178, 127-133.	4.0	17
51	Second order nonlinear optical networks with excellent poling stability from a new trifunctional thiophene based chromophore. <i>Organic Electronics</i> , 2009, 10, 53-60.	2.6	29
52	Synthesis, structure and reactivity of amino-benzodifurane derivatives. <i>Comptes Rendus Chimie</i> , 2009, 12, 622-634.	0.5	30
53	Facile synthesis of new Pd(II) and Cu(II) based metallomesogens from ligands containing thiophene rings. <i>Inorganic Chemistry Communication</i> , 2009, 12, 1135-1138.	3.9	30
54	Probing the Specificity Determinants of Amino Acid Recognition by Arginase. <i>Biochemistry</i> , 2009, 48, 121-131.	2.5	35

#	ARTICLE	IF	CITATIONS
55	Crystal Structure of (+)-Î-Cadinene Synthase from <i>Gossypium arboreum</i> and Evolutionary Divergence of Metal Binding Motifs for Catalysis. <i>Biochemistry</i> , 2009, 48, 6175-6183.	2.5	122
56	Structure and catalytic mechanism of human steroid 5Î-reductase (AKR1D1). <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 191-198.	3.2	31
57	Inhibition of Human Steroid 5Î-Reductase (AKR1D1) by Finasteride and Structure of the Enzyme-Inhibitor Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 19786-19790.	3.4	50
58	Evolution of the arginase fold and functional diversity. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2039-2055.	5.4	64
59	Structural basis for the function and inhibition of an influenza virus proton channel. <i>Nature</i> , 2008, 451, 596-599.	27.8	549
60	Directing Noble Metal Ion Chemistry within a Designed Ferritin Protein. <i>Biochemistry</i> , 2008, 47, 12729-12739.	2.5	84
61	Synthesis of (2S)-2-amino-7,8-epoxyoctanoic acid and structure of its metal-bridging complex with human arginase I. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3240.	2.8	5
62	Structure of a 129Xe-Cryptophane Biosensor Complexed with Human Carbonic Anhydrase II. <i>Journal of the American Chemical Society</i> , 2008, 130, 6942-6943.	13.7	58
63	(<i>S</i>)-2-Amino-6-nitrohexanoic Acid Binds to Human Arginase I through Multiple Nitro~Metal Coordination Interactions in the Binuclear Manganese Cluster. <i>Journal of the American Chemical Society</i> , 2008, 130, 17254-17255.	13.7	17
64	Crystal Structure of Human Liver Î-4-3-Ketosteroid 5Î-Reductase (AKR1D1) and Implications for Substrate Binding and Catalysis. <i>Journal of Biological Chemistry</i> , 2008, 283, 16830-16839.	3.4	67
65	Inducible NO Synthase~Dependent <i>S</i>-Nitrosylation and Activation of Arginase1 Contribute to Age-Related Endothelial Dysfunction. <i>Circulation Research</i> , 2007, 101, 692-702.	4.5	177
66	Expression, purification, assay, and crystal structure of perdeuterated human arginase I. <i>Archives of Biochemistry and Biophysics</i> , 2007, 465, 82-89.	3.0	65
67	Crystal Structure of Lactaldehyde Dehydrogenase from <i>Escherichia coli</i> and Inferences Regarding Substrate and Cofactor Specificity. <i>Journal of Molecular Biology</i> , 2007, 366, 481-493.	4.2	49
68	Crystal Structure of Human Arginase I Complexed with Thiosemicarbazide Reveals an Unusual Thiocarbonyl Î-4-Sulfide Ligand in the Binuclear Manganese Cluster. <i>Journal of the American Chemical Society</i> , 2007, 129, 6388-6389.	13.7	57
69	X-ray Crystal Structure of Aristolochene Synthase from <i>Aspergillus terreus</i> and Evolution of Templates for the Cyclization of Farnesyl Diphosphate,. <i>Biochemistry</i> , 2007, 46, 1941-1951.	2.5	161
70	Stereochemistry of guanidine-metal interactions: Implications for L-arginine-metal interactions in protein structure and function. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 637-642.	2.6	34
71	Noncovalent Synthesis in Aqueous Solution and Spectroscopic Characterization of Multi-Porphyrin Complexes. <i>Chemistry - A European Journal</i> , 2006, 12, 2722-2729.	3.3	53
72	Crystal structure of human arginase I at 1.29-Å resolution and exploration of inhibition in the immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13058-13063.	7.1	164

#	ARTICLE	IF	CITATIONS
73	Response of a Designed Metalloprotein to Changes in Metal Ion Coordination, Exogenous Ligands, and Active Site Volume Determined by X-ray Crystallography. <i>Journal of the American Chemical Society</i> , 2005, 127, 17266-17276.	13.7	49
74	Miniaturized heme proteins: crystal structure of Co(III)-mimochrome IV. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 1017-1027.	2.6	37
75	Assembly of Positively Charged Porphyrins Driven by Metal Ions: A Novel Polymeric Arrangement of Cationic Metalloporphyrin. <i>Inorganic Chemistry</i> , 2004, 43, 7579-7581.	4.0	17
76	Sliding Helix and Change of Coordination Geometry in a Model Di-MnII Protein. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 417-420.	13.8	52
77	Phasing protein structures using the group-subgroup relation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1435-1439.	2.5	7
78	Guest Encapsulation in a Water-Soluble Molecular Capsule Based on Ionic Interactions. <i>Journal of the American Chemical Society</i> , 2003, 125, 9946-9947.	13.7	145
79	Conformational and coordination properties of a peptide containing the novel β , β -bis(2-pyridyl)glycine amino acid. Electronic supplementary information (ESI) available: Figs. 1S, 2S. See http://www.rsc.org/suppdata/dt/b2/b209199b/ . <i>Dalton Transactions</i> , 2003, , 787-792.	3.3	11
80	Toward the de Novo Design of a Catalytically Active Helix Bundle: A Substrate-Accessible Carboxylate-Bridged Dinuclear Metal Center. <i>Journal of the American Chemical Society</i> , 2001, 123, 12749-12757.	13.7	100
81	Calixarene-Porphyrin Supramolecular Complexes: pH-Tuning of the Complex Stoichiometry. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4245-4247.	13.8	78
82	The crystal structure of Afc-containing peptides. <i>Biopolymers</i> , 2000, 53, 150-160.	2.4	14
83	The crystal structure of aDcp-containing peptide. <i>Biopolymers</i> , 2000, 53, 182-188.	2.4	12
84	Miniaturized metalloproteins: Application to iron-sulfur proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11922-11927.	7.1	66