

Mauro Formica

List of Publications by Year in descending order

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81
papers

2,531
citations

236612

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205818

48
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81
all docs

81
docs citations

81
times ranked

3110
citing authors

#	ARTICLE	IF	CITATIONS
1	New fluorescent chemosensors for metal ions in solution. <i>Coordination Chemistry Reviews</i> , 2012, 256, 170-192.	9.5	619
2	New trends in platinum and palladium complexes as antineoplastic agents. <i>Coordination Chemistry Reviews</i> , 2016, 310, 41-79.	9.5	197
3	Counterion Effect on CO/Styrene Copolymerization Catalyzed by Cationic Palladium(II) Organometallic Complexes: An Interionic Structural and Dynamic Investigation Based on NMR Spectroscopy. <i>Organometallics</i> , 1999, 18, 3061-3069.	1.1	105
4	Phosphates Sensing: Two Polyamino-Phenolic Zinc Receptors Able to Discriminate and Signal Phosphates in Water. <i>Inorganic Chemistry</i> , 2009, 48, 5901-5912.	1.9	87
5	Polynuclear metal complexes of ligands containing phenolic units. <i>Coordination Chemistry Reviews</i> , 2008, 252, 1121-1152.	9.5	85
6	Highly Efficient Catalytic System for the CO/Styrene Copolymerization: Toward the Stabilization of the Active Species. <i>Organometallics</i> , 2000, 19, 3435-3441.	1.1	65
7	Addition of Small Molecules by Zn(II) and Cu(II) Dinuclear Complexes Obtained by an Amino-Phenolic Ligand. Crystal Structures of the Dinuclear Zinc Complex Assembling Butanolate and Azide Anions. <i>Inorganic Chemistry</i> , 2001, 40, 6186-6192.	1.9	64
8	Ni(II), Cu(II), and Zn(II) Dinuclear Metal Complexes with an Aza-Phenolic Ligand: Crystal Structures, Magnetic Properties, and Solution Studies. <i>Inorganic Chemistry</i> , 2003, 42, 348-357.	1.9	63
9	A New Macrocyclic Cryptand with Squaramide Moieties: An Overstructured Cu(I) Complex That Selectively Binds Halides: Synthesis, Acid/Base- and Ligational Behavior, and Crystal Structures. <i>Chemistry - A European Journal</i> , 2007, 13, 702-712.	1.7	61
10	A Macrocyclic Ligand as Receptor and Zn(II) Complex Receptor for Anions in Water: Binding Properties and Crystal Structures. <i>Chemistry - A European Journal</i> , 2011, 17, 1670-1682.	1.7	50
11	Synthesis of a Flexible Ligand for Assembling Two Metal Ions in Close Proximity. Crystal Structures of Binuclear Nickel and Copper Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 4663-4665.	1.9	49
12	Efficient Fluorescent Sensors Based on 2,5-Diphenyl[1,3,4]oxadiazole: A Case of Specific Response to Zn(II) at Physiological pH. <i>Inorganic Chemistry</i> , 2010, 49, 9940-9948.	1.9	46
13	A new versatile solvatochromic amino-macrocyclic. From metal ions to cell sensing in solution and in the solid state. <i>Chemical Communications</i> , 2009, , 7039.	2.2	41
14	New branched macrocyclic ligand and its side-arm, two urea-based receptors for anions: synthesis, binding studies and crystal structure. <i>New Journal of Chemistry</i> , 2008, 32, 1204.	1.4	38
15	Malten, a new synthetic molecule showing in vitro antiproliferative activity against tumour cells and induction of complex DNA structural alterations. <i>British Journal of Cancer</i> , 2010, 103, 239-248.	2.9	38
16	Ambivalence of nucleophilic attack on central and terminal allyl carbon atoms of [(η -3-allyl)ML ₂] ⁺ (M = Ni, Cu, Pd, Pt). <i>Journal of Organometallic Chemistry</i> , 2008, 687, 108-114.	0.8	37
17	Modulating the Sensor Response to Halide Using NBD-Based Azamacrocycles. <i>Inorganic Chemistry</i> , 2014, 53, 4560-4569.	1.9	36
18	Multi-Use NBD-Based Tetra-Amino Macrocyclic Fluorescent Probe for Metals and Anions and Live Cell Marker. <i>Chemistry - A European Journal</i> , 2012, 18, 4274-4284.	1.7	33

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19	Chemical sensors for rare earth metal ions. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213639.	9.5	33
20	Polyamine Macrocycles Incorporating a Phenolic Function: Their Synthesis, Basicity, and Coordination Behavior toward Metal Cations. Crystal Structure of a Binuclear Nickel Complex. <i>Inorganic Chemistry</i> , 2000, 39, 2156-2163.	1.9	32
21	Anaerobic and aerobic complexation of Co(II) by a polyamine ditopic ligand containing the phenolic moiety. <i>Inorganica Chimica Acta</i> , 2001, 321, 153-161.	1.2	31
22	Synthesis of a Large Amino-Phenolic Cage. Synthesis, Crystal Structures, and Acid-Base and Coordination Behavior toward Cations and Anions. <i>Inorganic Chemistry</i> , 2006, 45, 304-314.	1.9	31
23	A fluorescent ratiometric nanosized system for the determination of Pd(II) in water. <i>Chemical Communications</i> , 2014, 50, 15259-15262.	2.2	27
24	PluS Nanoparticles as a tool to control the metal complex stoichiometry of a new thio-aza macrocyclic chemosensor for Ag(I) and Hg(II) in water. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 1035-1044.	4.0	27
25	New coumarin-urea based receptor for anions: a selective off-on fluorescence response to fluoride. <i>Tetrahedron</i> , 2012, 68, 3768-3775.	1.0	26
26	Molecular Switch Triggered by Solvent Polarity: Synthesis, Acid-Base Behavior, Alkali Metal Ion Complexation, and Crystal Structure. <i>Chemistry - A European Journal</i> , 2003, 9, 800-810.	1.7	25
27	Modulating the M-M Distance in Dinuclear Complexes. New Ligand with a 2,2'-Biphenol Fragment as Key Unit: Synthesis, Coordination Behavior, and Crystal Structures of Cu(II) and Zn(II) Dinuclear Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 309-320.	1.9	25
28	Synthesis, Basicity, Structural Characterization, and Biochemical Properties of Two [(3-Hydroxy-4-pyridin-2-yl)methyl]amine Derivatives Showing Antineoplastic Features. <i>Journal of Organic Chemistry</i> , 2012, 77, 2207-2218.	1.7	24
29	Coordination Behavior toward Copper(II) and Zinc(II) Ions of Three Ligands Joining 3-Hydroxy-2-pyridinone and Polyaza Fragments. <i>Inorganic Chemistry</i> , 2005, 44, 3249-3260.	1.9	21
30	Polynuclear Complexes: Two Amino-Phenol Macrocycles Spaced by Several Linear Polyamines; Synthesis, Binding Properties, and Crystal Structure. <i>Inorganic Chemistry</i> , 2009, 48, 10424-10434.	1.9	21
31	Direct Preparation of Unsymmetrical Difunctionalized Cyclen Derivatives by an Ugi Multicomponent Reaction. <i>Organic Letters</i> , 2009, 11, 417-420.	2.4	21
32	Two polyaminophenolic fluorescent chemosensors for H ⁺ and Zn(II) complexes. Spectroscopic behaviour of free ligands and of their dinuclear Zn(II) complexes. <i>New Journal of Chemistry</i> , 2009, 33, 171-180.	1.4	19
33	New family of polyamine macrocycles containing 2,5-diphenyl[1,3,4]oxadiazole as a signaling unit. Synthesis, acid-base and spectrophotometric properties. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1471.	1.5	19
34	A Biphenol-Based Chemosensor for Zn ^{II} and Cd ^{II} Metal Ions: Synthesis, Potentiometric Studies, and Crystal Structures. <i>Inorganic Chemistry</i> , 2016, 55, 7676-7687.	1.9	19
35	New ligand bearing preorganized binding side-arms interacting with ammonium cations: Synthesis, conformational studies and crystal structure. Electronic supplementary information (ESI) available: molecular modeling studies. See http://www.rsc.org/suppdata/nj/b3/b306778e/ . <i>New Journal of Chemistry</i> , 2003, 27, 1575.	1.4	17
36	Synthesis and coordination properties of new macrocyclic ligands: equilibrium studies and crystal structures. <i>Dalton Transactions</i> , 2004, , 3468.	1.6	17

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37	Di-maltol-polyamine ligands to form heterotrinnuclear metal complexes: solid state, aqueous solution and magnetic characterization. Dalton Transactions, 2013, 42, 5848.	1.6	17
38	Selective Lithium Complexation by Photoactive Aza-Cages Bearing the Anthracene Function. European Journal of Inorganic Chemistry, 1999, 1999, 2261-2268.	1.0	16
39	A Template Synthesis of Polyamine Macrocycles Containing the 1,10-Bis(2-phenol) Function. European Journal of Organic Chemistry, 2002, 2002, 402-404.	1.2	16
40	A Preorganized Metalloceptor for Alkaline Earth Ions Showing Calcium Versus Magnesium Selectivity in Water: Biological Activity of Selected Metal Complexes. Chemistry - A European Journal, 2014, 20, 11048-11057.	1.7	16
41	Cd(II)/Zn(II) discrimination using 2,5-diphenyl[1,3,4]oxadiazole based fluorescent chemosensors. New Journal of Chemistry, 2018, 42, 7869-7883.	1.4	16
42	Synthesis and study of three hydroxypyrazole-based ligands: A ratiometric fluorescent sensor for Zn(II). Journal of Luminescence, 2018, 195, 193-200.	1.5	16
43	Dinuclear Copper(II) Complex as Nitric Oxide Scavenger in a Stimulated Murine Macrophage Model. Bioconjugate Chemistry, 2003, 14, 1165-1170.	1.8	15
44	Synthesis, Crystal Structures and Lithium Encapsulation by Some Phenolic Aza Cages. European Journal of Inorganic Chemistry, 2000, 2000, 51-57.	1.0	14
45	Pd(II) and Pt(II) complexes with a thio-aza macrocycle ligand containing an intercalating fragment: Structural and antitumor activity studies. Journal of Inorganic Biochemistry, 2016, 162, 154-161.	1.5	14
46	Two triaza-polyamine units linked together by different aromatic spacers, coordination properties towards metal cations of a new compartmental ligand. Polyhedron, 2002, 21, 1351-1356.	1.0	13
47	Macrocyclic ligands bearing two 3-(Hydroxy)-2-pyridinone moieties as side-arms. Conformational studies, synthesis, crystal structure, and alkali and alkaline earth complex formation. New Journal of Chemistry, 2004, 28, 1359.	1.4	13
48	A New Benzoxazole-Based Fluorescent Macrocyclic Chemosensor for Optical Detection of Zn ²⁺ and Cd ²⁺ . Chemosensors, 2022, 10, 188.	1.8	13
49	Heavy metal ion complexes with a simple phenolic ligand. Solid state and solution studies. Inorganica Chimica Acta, 2003, 356, 203-209.	1.2	12
50	A New Branched Phenanthroline Derivative Ligand: Synthesis, Solution Chemistry, and Crystal Structures of Copper(II) and Zinc(II) Complexes. Inorganic Chemistry, 2007, 46, 4737-4748.	1.9	12
51	Synthesis of new compartmental amino-phenolic ligands. Basicity, coordination properties towards Cu(II) and Zn(II) ions. A fluorescent chemosensor for H ⁺ and Zn(II). Inorganica Chimica Acta, 2009, 362, 2667-2677.	1.2	12
52	Preorganizing binding side-arms on a cyclen scaffold: the choice of a suitable metal ion. Dalton Transactions, 2013, 42, 2902-2912.	1.6	12
53	Ligational Properties of Two New Phenolic Aza Cages towards Proton and Alkali Metal Ions: a Theoretical and an Experimental Approach. European Journal of Inorganic Chemistry, 2001, 2001, 1763-1774.	1.0	11
54	Synthesis, acid-base and coordination properties towards Cu(II), Zn(II), and Cd(II) ions of two new polyamino-phenolic ligands, including the crystal structure of a fully protonated ligand. Polyhedron, 2003, 22, 1135-1146.	1.0	11

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55	N ² S ² pyridinophane-based fluorescent chemosensors for selective optical detection of Cd ²⁺ in soils. <i>New Journal of Chemistry</i> , 2020, 44, 20834-20852.	1.4	10
56	Nitroxide Radicals Interacting with Polyamine-Phenolic Ligands and Their Metal Complexes. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2853-2860.	1.0	9
57	A family of polyamino phenolic macrocyclic ligands. Acid-base and coordination properties towards Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Pb(II) ions. <i>Inorganica Chimica Acta</i> , 2009, 362, 3709-3714.	1.2	9
58	Zn detection and biological activity of a macrocycle containing a bis(oxadiazole)pyridine derivative as fluorophore. <i>Dalton Transactions</i> , 2020, 49, 7496-7506.	1.6	9
59	A macrocyclic ligand able to bind gallium(III) by preorganized pendant arms; coordination and kinetic studies. <i>Dalton Transactions</i> , 2005, , 485.	1.6	8
60	Nucleophilic attack on the central allyl carbon of η^3 -allyl complexes of Pd and Pt. Synthesis of cyclopropanes from allylic electrophiles and silyl enolates. <i>Journal of Molecular Catalysis</i> , 1993, 84, 239-251.	1.2	7
61	Crystal Structure and Chemical Properties of Ni(II)-Zn(II) Hetero-Dinuclear Complex. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 301-303.	0.4	7
62	Playing with Structural Parameters: Synthesis and Characterization of Two New Maltol-Based Ligands with Binding and Antineoplastic Properties. <i>Molecules</i> , 2020, 25, 943.	1.7	7
63	Zn ²⁺ and Cu ²⁺ complexes of a fluorescent scorpionand-type oxadiazole azamacrocyclic ligand: crystal structures, solution studies and optical properties. <i>Dalton Transactions</i> , 2020, 49, 1897-1906.	1.6	7
64	Glyphosate and AMPA binding by two polyamino-phenolic ligands and their dinuclear Zn(II) complexes. <i>Inorganica Chimica Acta</i> , 2021, 519, 120261.	1.2	7
65	Cobalt complexes able to bind dioxygen: Thermodynamic studies and DFT calculations. <i>Inorganica Chimica Acta</i> , 2014, 417, 230-238.	1.2	6
66	Fluorescent macrocyclic chemosensor for Zn(II) detection at alkaline pH values. <i>Supramolecular Chemistry</i> , 2020, 32, 139-149.	1.5	6
67	A Flexible Ligand for Multipurpose Complexation. <i>Supramolecular Chemistry</i> , 2001, 13, 369-377.	1.5	5
68	Synthesis, binding and fluorescence studies of a new neutral H-bonding receptor for anions based on 3,5-bis(trifluoromethyl)phenylurea. <i>Supramolecular Chemistry</i> , 2010, 22, 365-379.	1.5	5
69	Synthesis and ligational properties of a new tetra-azamacrocyclic ligand containing an anisolic function. <i>Polyhedron</i> , 2000, 19, 2501-2505.	1.0	4
70	Neutral urea-based receptors for phosphates: synthesis and spectrophotometric studies. <i>Tetrahedron</i> , 2016, 72, 7039-7049.	1.0	4
71	Bis-maltol-polyamine family: structural modifications at strategic positions. Synthesis, coordination and antineoplastic activity of two new ligands. <i>New Journal of Chemistry</i> , 2021, 45, 2659-2669.	1.4	3
72	Structural insights into a versatile macrocyclic family based on 2,5-diphenyl[1,3,4]oxadiazole: a combined X-ray diffraction and computational study. <i>Supramolecular Chemistry</i> , 2017, 29, 896-911.	1.5	3

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73	A selective fluorescent probe for gadolinium ^{III} in water based on a Pd ^{II} -preorganized chromone-receptor. Dalton Transactions, 2021, 50, 15433-15440.	1.6	3
74	Selective Detection of Mg ²⁺ for Sensing Applications in Drinking Water. Chemistry - A European Journal, 2022, 28, .	1.7	3
75	Synthesis and characterization of a macrocycle containing different functional groups and its non-cyclic counterpart. Inorganica Chimica Acta, 2001, 318, 152-158.	1.2	2
76	Hetero-tetranuclear Cu ²⁺ /Ca ²⁺ /Ca ²⁺ /Cu ²⁺ Architectures Based On Malten Ligand: Scaffold for Anion Binding. ChemPlusChem, 2020, 85, 1179-1189.	1.3	2
77	A Metal-Based Receptor for Selective Coordination and Fluorescent Sensing of Chloride. Molecules, 2021, 26, 2352.	1.7	2
78	Synthesis and biological characterization of a new fluorescent probe for vesicular trafficking based on polyazamacrocycle derivative. Biological Chemistry, 2021, 402, 1225-1237.	1.2	2
79	Crystal structure of the Ba ^{II} -based Co ^{II} -containing one-dimensional coordination polymer poly[[aqua ₄ -2,2'-[(4,10-dimethyl-1,4,7,10-tetraazacyclododecane-1,7-diyl)bis(methylidene)]bis(4-oxo-4H-pyran-3-olato)]dicobaltcalcium perchlorate]. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1806-1811.	0.2	1
80	Crystal structure of bis{[2,2'-[(4,10-dimethyl-1,4,7,10-tetraazacyclododecane-1,7-diyl)bis(methylene)]bis(4-oxo-4H-pyran-3-olato)]dicobaltcalcium bis(perchlorate) 1.36-hydrate. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1959-1965.	0.2	1
81	2,5-Bis[2-({bis[3-(dimethylazaniumyl)propyl]azaniumyl)methyl}phenyl]-1,3,4-oxadiazole hexakis(perchlorate) sesquihydrate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o3453-o3454.	0.2	0