

# Elena Lastra

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Activation of 2-Propyn-1-ol Derivatives by Indenylruthenium(II) and -osmium(II) Complexes: X-ray Crystal Structures of the Allenylidene Complexes $[M(\text{CCCPh}_2)(\eta^5\text{-C}_9\text{H}_7)(\text{PPh}_3)_2][\text{PF}_6]\text{-CH}_2\text{Cl}_2$ (M = Ru, Os) and EHMO Calculations. <i>Organometallics</i> , 1996, 15, 2137-2147.	2.3	172
2	Indenyl complexes of Group 8 metals. <i>Coordination Chemistry Reviews</i> , 1999, 193-195, 147-205.	18.8	141
3	SEOM clinical guidelines in Hereditary Breast and ovarian cancer. <i>Clinical and Translational Oncology</i> , 2015, 17, 956-961.	2.4	82
4	Synthesis and characterization of triangulo copper(I) complexes containing mono- and bicapping systems of asymmetric $\eta^3$ -acetylide ligands: molecular structures of $[\text{Cu}_3(\eta^3\text{-C}_3\text{H}_3\text{-C.tpbond.CPh})(\eta^3\text{-dppm})_3][\text{BF}_4]_2$ , $[\text{Cu}_3(\eta^3\text{-C}_3\text{H}_3\text{-C.tpbond.CPh})_2(\eta^3\text{-dppm})_3][\text{BF}_4]$ , and $[\text{Cu}_3(\eta^3\text{-C}_3\text{H}_3\text{-C.tpbond.CPh})(\eta^3\text{-Cl})(\eta^3\text{-dppm})_3][\text{BF}_4]$ [dppm = bis(diphenylphosphino)methane]. <i>Organometallics</i> , 1993, 12, 2213-2220.	2.3	73
5	Formation of a Cyclobutylidene Ring: Intramolecular [2 + 2] Cycloaddition of Allyl and Vinylidene CC Bonds under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2003, 125, 2386-2387.	13.7	65
6	17-Electron alkynyl complexes of cyclopentadienyliron(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2575.	1.1	64
7	Synthesis and Reactivity of Indenyl Ruthenium(II) Complexes Containing the Labile Ligand 1,5-Cyclooctadiene (COD): Catalytic Activity of $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\text{Cl}(\text{COD})]$ . <i>Organometallics</i> , 2001, 20, 3762-3771.	2.3	61
8	Reactions of novel cationic diphenylallenylidene complexes $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\text{L}_2(\eta^3\text{-C}_3\text{H}_3)]^+ (\text{L} = \text{PPh}_3; \text{L}_2 = \text{EtQq})$ with anionic nucleophiles. <i>Journal of Organometallic Chemistry</i> , 1994, 474, C27-C29.	1.8	57
9	An Unprecedented Ruthenium Allenylidene Complex Containing an Unsaturated Bicyclic System: Formal Addition of 1-Ethynyl-1-cyclohexanol to an Alkenylvinylidene Intermediate Complex. <i>Organometallics</i> , 1994, 13, 745-747.	2.3	55
10	Novel cationic vinylidene complexes of iron(II) containing $\text{Fe}(\eta^5\text{-C}_5\text{H}_5)\text{L}_2$ as metal auxiliary [L2 = bis(diphenylphosphino)methane (dppm) and bis(dimethylphosphino)methane (dmpm)]. Crystal structure of $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)(\text{C}(\text{Me})\text{Ph})(\eta^3\text{-C}_3\text{H}_3)(\text{dppm})]^+$ . <i>Organometallics</i> , 1992, 11, 1373-1381.	2.3	52
11	Synthesis and characterization of novel $\eta^3$ -alkynyl cyclopentadienyl iron(II) complexes $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)\text{L}_2(\eta^3\text{-C}_3\text{H}_3)]$ [L = CO; L2 = bis(diphenylphosphino)methane (dppm)]. Crystal structure of $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)(\eta^3\text{-C}_3\text{H}_3)(\text{dppm})]^+$ . <i>Journal of Organometallic Chemistry</i> , 1991, 405, 333-345.	1.8	44
12	Asymmetric synthesis of (S)- and (R)-[2- <sup>2</sup> H]glycine via photolysis of optically active chromium carbene complexes. A comparison of stereoselectivity between chromium ketene complexes, ketenes, and ester enolates. <i>Journal of the American Chemical Society</i> , 1992, 114, 2991-2994.	13.7	44
13	Synthesis and crystal structure of $[\text{Cu}_3(\eta^3\text{-C}_3\text{H}_3\text{-C.tpbond.CPh})(\eta^3\text{-dppm})_3][\text{BF}_4]_2$ , a tricopper(I) complex containing a $\eta^3$ -acetylide group and three bis(diphenylphosphino)methane (dppm) bridging ligands. <i>Journal of Organometallic Chemistry</i> , 1989, 378, C11-C14.	1.8	42
14	Synthesis and Metal Complexation Reactions of Bis-Dioxocyclams from Photochemical Reaction of Bis-Chromium Alkoxy-carbene Complexes with Imidazolines. <i>Journal of the American Chemical Society</i> , 1995, 117, 3368-3379.	13.7	42
15	Intramolecular [2 + 2] Cycloaddition of Allyl CC and Allenylidene $\text{C}=\text{C}^2$ Bonds: Formation and Deprotonation of Cyclobutylidene Rings. <i>Organometallics</i> , 2005, 24, 1410-1418.	2.3	42
16	An unusual coordination mode of acetylide ligands: synthesis of tetranuclear copper(I) complexes		

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19	Reaction of the Ruthenium(II) Indenyl Complex $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\{\text{I}^{\text{P}}_3(\text{P},\text{C},\text{C})\text{-PPh}_2(\text{CH}_2\text{CHCH}_2)\}(\text{PPh}_3)][\text{PF}_6]$ with Terminal Alkynes. Mechanisms of 1-Alkyne to $\eta^1$ -Vinylidene Transformation and Kinetic Detection of Hemilability of the Allylphosphine Ligand. <i>Organometallics</i> , 2004, 23, 5127-5134.	2.3	36
20	Highly Enantioselective Hydrogenation of $\alpha$ -Aryl Imines Derived from Acetophenones by Using $\text{Ru}^{\text{II}}$ -Pybox Complexes under Hydrogenation or Transfer Hydrogenation Conditions in Isopropanol. <i>Chemistry - A European Journal</i> , 2015, 21, 549-553.	3.3	36
21	Asymmetric Transfer Hydrogenation of Ketones Catalyzed by Enantiopure Osmium(II) Pybox Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6193-6198.	4.0	31
22	1,3-Dipolar Cycloadditions of Ruthenium(II) Azido Complexes with Alkynes and Nitriles. <i>Inorganic Chemistry</i> , 2013, 52, 4293-4302.	4.0	30
23	Asymmetric transfer hydrogenation of ketones catalyzed by ruthenium(II) complexes bearing a chiral phosphinoferrocenyloxazoline ligand. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2535-2540.	1.8	29
24	Synthesis of alkynyl, cyclic carbene and vinylidene osmium(II) complexes: first indenyl half-sandwich osmium(II) complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 2547.	1.1	28
25	Reactions of cationic vinylidene complexes $[\text{Fe}=\text{C}=\text{C}(\text{R}_1)\text{R}_2](\eta^5\text{-C}_5\text{H}_5)(\text{dppm}) + [\text{dppm} = \text{bis}(\text{diphenylphosphino})\text{methane}]$ with nucleophiles: stereoselective synthesis and crystal structure of the alkenyl complex (E)- $[\text{Fe}\{\text{C}(\text{H})=\text{C}(\text{Me})\text{Ph}\}(\eta^5\text{-C}_5\text{H}_5)(\text{dppm})]$ . <i>Journal of Organometallic Chemistry</i> , 1992, 430, C39-C43.	1.8	27
26	Novel hydridotris(pyrazolyl)borate ruthenium(II) complexes containing the water-soluble phosphane 1,3,5-triaza-7-phosphaadamantane: Synthesis and evaluation of DNA binding properties. <i>Polyhedron</i> , 2008, 27, 1214-1228.	2.2	27
27	Diastereoselective Synthesis of the Indenylruthenium(II) Complexes $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\{\text{I}^{\text{P}}_3(\text{P},\text{C},\text{C})\text{-Ph}_2\text{P}(\text{CH}_2\text{CRCH}_2)\}(\text{PPh}_3)][\text{PF}_6]$ (R = H, Me): $\Delta$ Enantiofacial Coordination, Hemilabile Properties, and Diastereoselective Nucleophilic Additions to $\text{I}^{\text{P}}_3(\text{P},\text{C},\text{C})$ -Allylphosphine Ligands. <i>Organometallics</i> , 2004, 23, 2956-2966.	2.3	26
28	Lithioalkynyl iron(II) or ruthenium(II) complexes as precursors of novel alkynyl and vinylidene derivatives: heterobimetallic complexes containing a bridging ethynediyl system. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995, , 1901-1906.	1.1	25
29	Facile Modification of 1,3,5-Triaza-7-phosphatricyclo[3.3.1.1 <sup>3,7</sup> ]decane Phosphanes Coordinated to Ruthenium(II). <i>Inorganic Chemistry</i> , 2009, 48, 2471-2481.	4.0	24
30	Antitumor activity of new hydridotris(pyrazolyl)borate ruthenium(ii) complexes containing the phosphanes PTA and 1-CH <sub>3</sub> -PTA. <i>Dalton Transactions</i> , 2010, 39, 10186.	3.3	24
31	Unusual activation of 1-ethynyl-1-cyclohexanol by $[\text{RuCl}(\eta^5\text{-C}_9\text{H}_7)(\text{PPh}_3)_2]$ : synthesis and reactivity of the allenylidene derivative $[\text{Ru}\{\text{I}^{\text{P}}_2\text{C}(\text{C}_6\text{H}_{11})\}(\eta^5\text{-C}_9\text{H}_7)(\text{PPh}_3)_2][\text{PF}_6]$ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3235-3243.	1.1	21
32	Synthesis of New Half-Sandwich Ruthenium(II) Complexes Bearing Alkenyl- and Alkynylphosphane Ligands. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 78-87.	2.0	21
33	From alkenylphosphane aminoallenylidene ruthenium(II) complexes to highly unsaturated ruthenaphosphabicycloheptene complexes. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 4092-4099.	1.8	20
34	1,3-Dipolar Cycloaddition Reactions of Neutral and Cationic Hydridotris(pyrazolyl)borate-Ruthenium(II) Azido Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 917-924.	2.0	20
35	Transfer Hydrogenation of Ketones Catalysed by New Half-Sandwich Ruthenium(II) Complexes Bearing the Sulfonated Phosphane (meta-Sulfonatophenyl)diphenylphosphane Potassium Salt (TPPMS). <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2855-2864.	2.0	18
36	Catalytic Synthesis of Polynorbornene and Polynorbornadiene of Low Polydispersity Index by $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\text{Cl}(\text{COD})]$ (COD = 1,5-Cyclooctadiene). <i>Organometallics</i> , 2002, 21, 5678-5680.	2.3	17

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37	Synthesis and characterization of novel triply-bridged binuclear copper(I) complexes containing [3,6-bis(3,5-dimethylpyrazol-1-yl)pyridazine] (PPDMe) a. Polyhedron, 1990, 9, 2603-2608.	2.2	16
38	Novel indenyl half-sandwich osmium(II) complexes. X-ray structure of [Os{r...Cr...C(H)But}(i-5-C9H7)(PPh3)2][PF6]·OEt2. Inorganica Chimica Acta, 2003, 347, 99-106.	2.4	16
39	Antitumor activity of new enantiopure pybox-ruthenium complexes. Dalton Transactions, 2013, 42, 13955.	3.3	16
40	Nucleophilic Additions to Allenylidene Ruthenium Complexes. Organometallics, 2015, 34, 1345-1353.	2.3	16
41	Practical synthesis of enantiopure benzylamines by catalytic hydrogenation or transfer hydrogenation reactions in isopropanol using a Ru-pybox catalyst. Organic Chemistry Frontiers, 2018, 5, 841-849.	4.5	14
42	Synthesis and Structural Features of New Ruthenium(II) Complexes Containing the Scorpionate Ligands Tris(pyrazolyl)methanesulfonate (Tpms) and Tris(pyrazolyl)methane (Tpm). European Journal of Inorganic Chemistry, 2011, 2011, 4745-4755.	2.0	13
43	Me2Si(i-5-C5H4)2-Bridged Dinuclear Ruthenium Complexes: X-ray Crystal Structures of [Ru2{i-1/4-(i-5-C5H4)2SiMe2}(Cl)2(CO)4] and [Ru2{i-1/4-(i-5-C5H4)2SiMe2}(i-1/4-Br)(CO)4][BF4]. Organometallics, 1999, 18, 3008-3015.	2.0	12
44	Half-Sandwich i-5-Indenyl- and i-6-Arenylruthenium(II) Complexes Bearing the Chiral Ligand (4S)-2-[(Sp)-2-(Diphenylphosphanyl)ferrocenyl]-4-(methylethyl)oxazoline (FcPN). European Journal of Inorganic Chemistry, 2007, 2007, 732-741.	2.0	12
45	Intramolecular nucleophilic attack on cationic iron(II) vinylidene complexes: Synthesis and crystal structure of the alkenyl [H] containing an unprecedented bicyclopentane ring system. Journal of Organometallic Chemistry, 1992, 429, C19-C25.	1.8	11
46	Regioselective Synthesis of i-4-Dienylphosphane Ruthenium Complexes by Oxidative Coupling Reactions. Organometallics, 2007, 26, 5315-5322.	2.3	11
47	Ruthenium-Mediated Cyclometalation Reactions of Allene and Allylphosphine C-C Bonds: Synthesis of i-4-(Hexa-2,5-dien-1-yl)diphenylphosphine Ruthenium(II) Complexes. Organometallics, 2011, 30, 5803-5808.	2.3	11
48	Organoruthenium Complexes Containing New Phosphorus-Carbon and Phosphorus-Carbon-Sulfur Ligands Generated in the Coordination Sphere by Nucleophilic Addition Reactions. Organometallics, 2013, 32, 4342-4352.	2.3	11
49	i-3-Allylphosphane Iridium(III) and Rhodium(III) Complexes: Preparation and Reactivity toward Nucleophilic Reagents. Organometallics, 2015, 34, 4581-4590.	2.3	11
50	Synthesis of Silver(I) and Gold(I) Complexes Containing Enantiopure Pybox Ligands. First Assays on the Silver(I)-Catalyzed Asymmetric Addition of Alkynes to Imines. Inorganic Chemistry, 2016, 55, 8794-8807.	4.0	11
51	Photochemical reactions of alkynyl iron (II) complexes with carbon disulfide. Insertion of CS2 into an iron-C(sp) bond. Journal of Organometallic Chemistry, 1996, 510, 207-211.	1.8	10
52	Octahedral ruthenium(II) complexes containing the chiral ligand (4S)-2-[(Sp)-2-(diphenylphosphino)ferrocenyl]-4-(isopropyl)oxazoline (FcPN). X-Ray crystal structures of fac-[RuCl2(PMe3)2(FcPN)] and fac-[RuCl2(dppm)(FcPN)] (dppm=bis(diphenylphosphino)methane). Journal of Organometallic Chemistry, 2001, 637-639, 463-468.	1.8	10
53	Alkyne activation by half-sandwich ruthenium(II) complexes bearing the water-soluble phosphane 1,3,5-triaza-7-phosphaadamantane (PTA). Journal of Organometallic Chemistry, 2010, 695, 162-169.	1.8	10
54	Synthesis and characterization of 3,6-bis(3,5-dimethylpyrazol-1-yl)pyridazine (L) derivatives of mononuclear manganese(I) and Group 6 metal(0) carbonyl complexes. Crystal and molecular structures of [M(CO)4L] (M = Cr or Mo). Journal of the Chemical Society Dalton Transactions, 1991, , 1557-1562.	1.1	9

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55	Antimicrobial and Antitumor Activity of Enantiopure Pybox-Osmium Complexes. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1424-1432.	2.0	9
56	1,3-Dipolar Cycloadditions of Rhodium(III) Azido Complexes with Alkynes and Nitriles. <i>ChemistrySelect</i> , 2017, 2, 3172-3177.	1.5	9
57	Mononuclear osmium(II) complexes bearing (S,S)-iPr-pybox and (R,R)-Ph-pybox ligands. <i>Journal of Organometallic Chemistry</i> , 2014, 750, 30-34.	1.8	8
58	Alkyne activation by half-sandwich ruthenium(II) complex [RuCl( $\eta$ -5-C <sub>9</sub> H <sub>7</sub> ){P(OEt) <sub>3</sub> }(PPh <sub>3</sub> )]. <i>Journal of Organometallic Chemistry</i> , 2015, 797, 101-109.	1.8	8
59	Intramolecular C-C Coupling Reactions of Alkynyl, Vinylidene, and Alkenylphosphane Ligands in Rhodium(III) Complexes. <i>Organometallics</i> , 2016, 35, 2793-2805.	2.3	7
60	Synthesis of Iridium Tetrazolato, Triazolinato, and Triazolato Complexes by [3+2] Cycloaddition of Iridium(III) Azido Complexes with Unsaturated Nitriles. <i>Organometallics</i> , 2019, 38, 1168-1177.	2.3	7
61	Oxidative additions on indenyl rhodium complexes bearing the hemilabile homoallyldiphenylphosphane (HADPP) ligand. <i>Journal of Organometallic Chemistry</i> , 2014, 757, 1-7.	1.8	6
62	Osmium(II)/R-pybox vs ruthenium(II)/R-pybox complexes in the catalytic asymmetric transfer hydrogenation of arylketones. <i>Molecular Catalysis</i> , 2018, 456, 75-86.	2.0	6
63	New ruthenium(II) complexes containing the chiral ligand (4S)-2-[(Sp)-2-(diphenylphosphino)ferrocenyl]-4-(methyl)oxazoline (FcPN). X-ray structures of mer-trans-[RuCl <sub>2</sub> (dppm)(FcPN)] (dppm=bis(diphenylphosphino)methane) and cis-[RuCl <sub>2</sub> (CO)(py)(FcPN)]. <i>Journal of Organometallic Chemistry</i> , 2002, 663, 204-212.	1.8	5
64	Copper(I) and silver(I) complexes containing the enantiopure N,N-bidentate 1,3-bis[4-(S)-isopropylloxazolin-2-yl]benzene ((S,S)-iPr-pheboxH) ligand. <i>Polyhedron</i> , 2015, 94, 59-66.	2.2	5
65	Reactivity of Hydride Half-Sandwich Ruthenium(II) Complexes Bearing the Scorpionate Ligands Hydridotris(pyrazol-1-yl)borate and Tris(pyrazol-1-yl)methanesulfonate. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2516-2526.	2.0	5
66	Reactivity of $\eta$ -Alkenylphosphane Rhodium(III) and Iridium(III) Complexes toward Nucleophilic Reagents. <i>ChemistrySelect</i> , 2016, 1, 4044-4051.	1.5	3
67	Asymmetric Transfer Hydrogenation of Arylketones Catalyzed by Enantiopure Ruthenium(II)/Pybox Complexes Containing Achiral Phosphonite and Phosphinite Ligands. <i>Molecules</i> , 2020, 25, 990.	3.8	3
68	Elemental and molecular mass spectrometric strategies for probing interactions between DNA and new Ru complexes containing phosphane ligands and either a tris(pyrazol-1-yl)borate or a pyridine bis(oxazoline) ligand. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 172-179.	3.0	2
69	Isomerization Processes on Organoruthenium Complexes Bearing $\eta$ -Bidentate Ligands Generated Through Nucleophilic Addition to Coordinated Alkenyl Phosphanes. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4875-4886.	2.0	2
70	Synthesis of Pentamethylcyclopentadienyl Dialkynyl Phosphane Iridium(III) complexes. Reactivity of the Complex [Ir( $\eta$ -5-C <sub>5</sub> Me <sub>5</sub> )(C <sub>2</sub> )(C <sub>2</sub> )(PPh <sub>3</sub> ) <sub>3</sub> ] toward Electrophiles. <i>Organometallics</i> , 2020, 39, 43-50.	2.3	1