

Miguel A Sierra

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4004919/miguel-a-sierra-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

215
papers

5,585
citations

36
h-index

60
g-index

240
ext. papers

6,066
ext. citations

5.8
avg. IF

5.81
L-index

#	Paper	IF	Citations
215	Kinetic isotope effects in the study of organometallic reaction mechanisms. <i>Chemical Reviews</i> , 2011 , 111, 4857-963	68.1	456
214	Di- and polymetallic heteroatom stabilized (Fischer) metal carbene complexes. <i>Chemical Reviews</i> , 2000 , 100, 3591-638	68.1	200
213	The mechanism of the ketene-imine (staudinger) reaction in its centennial: still an unsolved problem?. <i>Accounts of Chemical Research</i> , 2008 , 41, 925-36	24.3	161
212	Catalytic transmetalation from group 6 Fischer carbene complexes: an emerging powerful tool in organic synthesis. <i>Accounts of Chemical Research</i> , 2005 , 38, 44-53	24.3	158
211	Dyotropic reactions: mechanisms and synthetic applications. <i>Chemical Reviews</i> , 2009 , 109, 6687-711	68.1	134
210	Pd-catalyzed inter- and intramolecular carbene transfer from group 6 metal-carbene complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 851-61	16.4	109
209	Comments on recent achievements in biomimetic organic synthesis. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 160-81	16.4	97
208	Synthesis of cyclobutanones by the photolytic reaction of chromium carbene complexes with olefins: inter- and intramolecular reactions. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4364-4374	16.4	81
207	Fischer carbene complexes: beautiful playgrounds to study single electron transfer (SET) reactions. <i>Chemistry - A European Journal</i> , 2007 , 13, 736-44	4.8	77
206	Chromium(0) Carbene Complexes as Carbene Sources: Self-Dimerization and Inter- and Intramolecular C-H Insertion Reactions Catalyzed by Pd(OAc) ₂ . <i>Journal of the American Chemical Society</i> , 1998 , 120, 6812-6813	16.4	74
205	Stereoselective preparation of mono- and bis-β-lactams by the 1,4-diaza-1,3-diene - acid chloride condensation: scope and synthetic applications. <i>Journal of Organic Chemistry</i> , 1992 , 57, 5921-5931	4.2	74
204	Chelating agents related to ethylenediamine bis(2-hydroxyphenyl)acetic acid (EDDHA): synthesis, characterization, and equilibrium studies of the free ligands and their Mg ²⁺ , Ca ²⁺ , Cu ²⁺ , and Fe ³⁺ chelates. <i>Inorganic Chemistry</i> , 2003 , 42, 5412-21	5.1	73
203	A Theoretical/Experimental Approach to the Mechanism of the Photocarbonylation of Chromium(0) (Fischer) Carbene Complexes and Their Reaction with Imines. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11509-11510	16.4	65
202	Photochemistry of group 6 Fischer carbene complexes: beyond the photocarbonylation reaction. <i>Accounts of Chemical Research</i> , 2011 , 44, 479-90	24.3	64
201	Non-Classical Polycyclic β-Lactams. <i>Tetrahedron</i> , 2000 , 56, 5743-5774	2.4	64
200	Synthesis and characterisation of [6]-azaosmahelicenes: the first d ⁴ -heterometalhelices. <i>Chemical Communications</i> , 2012 , 48, 5328-30	5.8	61
199	In-plane aromaticity in double group transfer reactions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1488-91	4.2	54

198	The "click" reaction involving metal azides, metal alkynes, or both: an exploration into multimetal structures. <i>Chemistry - A European Journal</i> , 2013 , 19, 3534-41	4.8	52
197	Divergent pathways in the reaction of Fischer carbenes and palladium. <i>Organic Letters</i> , 2007 , 9, 1757-9	6.2	52
196	Regio- and diastereoselective stepwise [8 + 3]-Cycloaddition reaction between tropone derivatives and donor-acceptor cyclopropanes. <i>Organic Letters</i> , 2013 , 15, 4928-31	6.2	51
195	Do $\nu(\text{CO})$ stretching frequencies in metal carbonyl complexes unequivocally correlate with the intrinsic electron-donicity of ancillary ligands?. <i>Chemistry - A European Journal</i> , 2011 , 17, 6602-5	4.8	51
194	Structure and Conformations of Heteroatom-Substituted Free Carbenes and Their Group 6 Transition Metal Analogues. <i>Organometallics</i> , 2004 , 23, 1065-1071	3.8	51
193	Computational and experimental tools in solving some mechanistic problems in the chemistry of Fischer carbene complexes. <i>Chemical Communications</i> , 2008 , 4671-82	5.8	50
192	Electronic structure of alkoxychromium(0) carbene complexes: a joint TD-DFT/experimental study. <i>Inorganic Chemistry</i> , 2008 , 47, 5253-8	5.1	48
191	Alkyne-Co(2)(CO)(6) Complexes in the Synthesis of Fused Tricyclic beta-Lactam and Azetidine Systems.(,)(1). <i>Journal of Organic Chemistry</i> , 1998 , 63, 6786-6796	4.2	47
190	Synthesis of ferrocene-substituted 2-azetidinones. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8920-5	4.2	46
189	DFT study on the Diels-Alder cycloaddition between alkenyl-M(0) (M = Cr, W) carbene complexes and neutral 1,3-dienes. <i>Journal of Organic Chemistry</i> , 2008 , 73, 2083-9	4.2	44
188	Transmetalation reactions from Fischer carbene complexes to late transition metals: a DFT study. <i>Chemistry - A European Journal</i> , 2008 , 14, 11222-30	4.8	44
187	Multiple C-H Bond Activation of Phenyl-Substituted Pyrimidines and Triazines Promoted by an Osmium Polyhydride: Formation of Osmapolycycles with Three, Five, and Eight Fused Rings. <i>Organometallics</i> , 2010 , 29, 976-986	3.8	40
186	Mechanism of the Generation of KetenimineM(CO) _n Complexes (M = Cr, W, Fe) from Fischer Carbenes and Isocyanides. <i>Organometallics</i> , 2007 , 26, 3010-3017	3.8	40
185	Effect of the metal fragment in the thermal cycloaddition between alkynyl metal(0) Fischer carbene complexes and nitrones. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6178-84	4.2	40
184	Catalytic Transmetalation of Alkoxychromium(0) Carbenes to Late Transition Metals: Self-Dimerization and Cyclopropanation Reactions. <i>Organometallics</i> , 2004 , 23, 5021-5029	3.8	40
183	Computational and experimental studies on the mechanism of the photochemical carbonylation of group 6 Fischer carbene complexes. <i>Chemistry - A European Journal</i> , 2005 , 11, 5988-96	4.8	39
182	Synthesis of oxaspiranic compounds through [3 + 2] annulation of cyclopropenones and donor-acceptor cyclopropanes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1207-13	4.2	38
181	Platinum-catalysed bisindolylolation of allenes: a complementary alternative to gold catalysis. <i>Chemistry - A European Journal</i> , 2012 , 18, 4499-504	4.8	36

- 180 Steric versus Electronic Effects in the Structure of Heteroatom (S and O)-Substituted Free and Metal (Cr and W)-Complexed Carbenes. *Organometallics*, **2007**, 26, 5854-5858 3.8 36
- 179 C8K-promoted self-condensation and self-condensation-cycloisomerization reactions of alpha,beta-unsaturated Fischer carbene complexes. *Angewandte Chemie - International Edition*, **2002**, 41, 3442-5 16.4 36
- 178 Formal [2 + 2 + 1] and [4 + 1] cycloadditions of electron poor alkenes to pentacarbonyl[(N,N-dimethylamino)methylene]chromium. *Organometallics*, **1993**, 12, 3769-3771 3.8 36
- 177 Intramolecular Pd(0)-catalyzed reactions of (2-iodoanilino)-aldehydes: a joint experimental-computational study. *Journal of Organic Chemistry*, **2012**, 77, 10272-84 4.2 35
- 176 C4,C4-Bis- β -lactam to Fused Bis- β -lactam Rearrangement. *Journal of Organic Chemistry*, **1996**, 61, 9156-9163 4.2 35
- 175 Pi-stacking effect on levoglucosenone derived internal chiral auxiliaries. A case of complete enantioselectivity inversion on the Diels-Alder reaction. *Organic Letters*, **2008**, 10, 3389-92 6.2 34
- 174 Light-induced aminocarbene to imine dyotropic rearrangement in a chromium(0) center: an unprecedented reaction pathway. *Journal of the American Chemical Society*, **2003**, 125, 9572-3 16.4 34
- 173 Gold Sulfinyl Mesoionic Carbenes: Synthesis, Structure, and Catalytic Activity. *Organic Letters*, **2016**, 18, 3570-3 6.2 34
- 172 Bio-Organometallic Derivatives of Antibacterial Drugs. *Chemistry - A European Journal*, **2019**, 25, 7232-7248 4.8 33
- 171 Photochemical access to tetra- and pentacyclic terpene-like products from R-(+)-sclareolide. *Journal of Organic Chemistry*, **2003**, 68, 6611-8 4.2 33
- 170 Trapping intermediates in an [8 + 2] cycloaddition reaction with the help of DFT calculations. *Organic Letters*, **2011**, 13, 2892-5 6.2 32
- 169 Structure and fertilizer properties of byproducts formed in the synthesis of EDDHA. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 4355-63 5.7 32
- 168 Synthesis of o,p-EDDHA and its detection as the main impurity in o,o-EDDHA commercial iron chelates. *Journal of Agricultural and Food Chemistry*, **2002**, 50, 6395-9 5.7 32
- 167 Formation of cyclobutanones by the photolytic reaction of chromium carbene complex (CO)5Cr:C(OMe)Me with electron-rich olefins. *Journal of the American Chemical Society*, **1989**, 111, 2335-2336 16.4 32
- 166 Chelated Assisted Metal-Mediated N-H Bond Activation of β -Lactams: Preparation of Irida-, Rhoda-, Osma-, and Ruthenatrinems. *Organometallics*, **2014**, 33, 1820-1833 3.8 31
- 165 A straightforward synthesis of tetrameric estrone-based macrocycles. *Organic Letters*, **2008**, 10, 3555-8 6.2 31
- 164 Dead Ends and Detours En Route to Total Syntheses of the 1990s A list of abbreviations can be found at the end of the article. *Angewandte Chemie - International Edition*, **2000**, 39, 1538-1559 16.4 31
- 163 Synthesis and electrochemical properties of novel tetrametallic macrocyclic Fischer carbene complexes. *Organic Letters*, **2003**, 5, 1237-40 6.2 30

162	Stereoelectronic effects on type I 1,2-dyotropic rearrangements in vicinal dibromides. <i>Chemistry - A European Journal</i> , 2006 , 12, 6323-30	4.8	29
161	A novel, general, totally stereoselective one-pot synthesis of cis-3-substituted 4-formylazetidin-2-ones. <i>Tetrahedron Letters</i> , 1991 , 32, 803-806	2	29
160	Osmium Catalysts for Acceptorless and Base-Free Dehydrogenation of Alcohols and Amines: Unusual Coordination Modes of a BPI Anion. <i>Organometallics</i> , 2018 , 37, 603-617	3.8	28
159	Tuning the photophysical properties of BODIPY molecules by π -conjugation with Fischer carbene complexes. <i>Chemistry - A European Journal</i> , 2014 , 20, 1367-75	4.8	28
158	A Copper-Catalyzed Azide-Alkyne Cycloaddition Approach to the Synthesis of Bimetallic Chromium(0) (Fischer) Carbene Complexes. <i>Organometallics</i> , 2009 , 28, 956-959	3.8	28
157	Synthesis of polymetallic macrocyclic terpene-derived hybrids. <i>Chemical Communications</i> , 2006 , 985-7	5.8	28
156	2-Azetidinones as Precursors of Pincer Ligands: Preparation, Structure, and Spectroscopic Properties of CC'N-Osmium Complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 10998-1006	5.1	27
155	Deeper insight into the mechanism of the reaction of photogenerated metallaketenes and imines. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13892-9	16.4	27
154	Reactivity of synthetic Fe chelates with soils and soil components. <i>Plant and Soil</i> , 2002 , 241, 129-137	4.2	27
153	Stereoselective Synthesis of 3-Substituted 4-(Formyloxy)-2-azetidinones by the Unusual Baeyer-Villiger Reaction of beta-Lactam Aldehydes. Scope and Synthetic Applications. <i>Journal of Organic Chemistry</i> , 1996 , 61, 8819-8825	4.2	27
152	Azole Assisted C-H Bond Activation Promoted by an Osmium-Polyhydride: Discerning between N and NH. <i>Organometallics</i> , 2015 , 34, 1898-1910	3.8	26
151	Understanding of the mode of action of Fe(III)-EDDHA as iron chlorosis corrector based on its photochemical and redox behavior. <i>Chemistry - A European Journal</i> , 2005 , 11, 5997-6005	4.8	26
150	Regioselective and stepwise [8 + 2] cycloaddition reaction between alkynyl-Fischer carbene complexes and tropothione. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6648-52	4.2	25
149	Two versatile and parallel approaches to highly symmetrical open and closed natural product-based structures. <i>Chemistry - A European Journal</i> , 2010 , 16, 3798-814	4.8	25
148	Synthesis, structure, and electronic properties of extended π -conjugated Group 6 Fischer alkoxy-bis(carbene) complexes. <i>Chemistry - A European Journal</i> , 2013 , 19, 5899-908	4.8	24
147	The photochemical reactivity of the "photo-inert" tungsten (Fischer) carbene complexes. <i>Angewandte Chemie - International Edition</i> , 2005 , 45, 125-8	16.4	24
146	Synthesis of highly functionalized macrocycles by the peripheral functionalization of macrocyclic diimines. <i>Journal of Organic Chemistry</i> , 2006 , 71, 8787-93	4.2	24
145	Unexpected reaction pathways in the reaction of alkoxyalkynylchromium(0) carbenes with aromatic dinucleophiles. <i>Chemistry - A European Journal</i> , 2003 , 9, 4943-53	4.8	24

144	Nature of impurities in fertilizers containing EDDHMA/Fe(3+), EDDHSA/Fe(3+), and EDDCHA/Fe(3+) chelates. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 284-90	5.7	24
143	New reactivity patterns of the β -lactam ring: tandem C3-C4 bond breakage-rearrangement of 4-acyl- or 4-imino-3,3-dimethoxy-2-azetidiones promoted by stannous chloride (SnCl ₂ ·2H ₂ O). <i>Journal of Organic Chemistry</i> , 1993 , 58, 4767-4770	4.2	24
142	The nicholas approach to natural product hybrids. <i>Chemistry - A European Journal</i> , 2006 , 12, 6403-11	4.8	23
141	ESI Mass Spectrometry as a Tool for the Study of Electron Transfer in Nonconventional Media: The Case of Bi- and Polymetallic Carbene Complexes \square <i>Organometallics</i> , 2004 , 23, 4647-4654	3.8	23
140	On the Reduction of β -Unsaturated (Group 6) Carbene Complexes by NaBH ₄ 1. <i>Tetrahedron</i> , 2000 , 56, 4893-4905	2.4	23
139	Chromium-carbene-mediated synthesis of 4-oxo β -lactams (malonimides) and malonic acid derivatives. <i>Journal of Organic Chemistry</i> , 1992 , 57, 447-451	4.2	23
138	Mechanistic Insight into the Facilitation of β -Lactam Fragmentation through Metal Assistance. <i>Chemistry - A European Journal</i> , 2015 , 21, 16781-5	4.8	22
137	β -Lactams from Fischer Carbene Complexes: Scope, Limitations, and Reaction Mechanism. <i>Topics in Heterocyclic Chemistry</i> , 2012 , 65-84	0.2	22
136	General Route to Olefins and Polyenes Having Metal Termini through the Palladium-Catalyzed Self-Dimerization of Bimetallic Fischer Carbenes. <i>Organometallics</i> , 2011 , 30, 1794-1803	3.8	22
135	Synthesis and properties of mononuclear group 10 alkoxy-biscarbene complexes. <i>Chemistry - A European Journal</i> , 2009 , 15, 3595-603	4.8	22
134	The assembly of macrocyclic bis- and tetra- β -lactams with embedded platinum or palladium square-planar centers. <i>Chemistry - A European Journal</i> , 2009 , 15, 6940-52	4.8	22
133	Aromatization of a Dihydro-3-ruthenaindolizine Complex. <i>Organometallics</i> , 2009 , 28, 4876-4879	3.8	22
132	A DFT study of the ambiphilic nature of arylpalladium species in intramolecular cyclization reactions. <i>Journal of Organic Chemistry</i> , 2011 , 76, 1592-8	4.2	21
131	Cobalt-mediated approach for the synthesis of terpene-based hybrids. <i>Organic Letters</i> , 2003 , 5, 2381-4	6.2	21
130	Diversity oriented synthesis of hispanane-like terpene derivatives from (R)-(+)-sclareolide. <i>Chemistry - A European Journal</i> , 2005 , 11, 3659-67	4.8	21
129	New Pd-catalyzed tandem cyclization processes on group 6 bis-carbene complexes. <i>Chemical Communications</i> , 2002 , 1842-3	5.8	21
128	Synthesis of Cyclophanic Chromium(0) Bis(carbene) Complexes. <i>Organometallics</i> , 2001 , 20, 4304-4306	3.8	21
127	The Intramolecular Aldol Condensation Route to Fused Bi- and Tricyclic β -Lactams(1),(2). <i>Journal of Organic Chemistry</i> , 1996 , 61, 7125-7132	4.2	21

126	Control over the chemoselectivity of Pd-catalyzed cyclization reactions of (2-iodoanilino)carbonyl compounds. <i>Chemistry - A European Journal</i> , 2012 , 18, 6950-8	4.8	20
125	The electronic structure and photochemistry of group 6 bimetallic (Fischer) carbene complexes: beyond the photocarbonylation reaction. <i>Chemistry - A European Journal</i> , 2010 , 16, 6616-24	4.8	20
124	Synthesis of terpene and steroid dimers and trimers having cyclobutadienyl-Co and aromatic tethers. <i>Journal of Organic Chemistry</i> , 2007 , 72, 4213-9	4.2	20
123	An approach to furolabdanes and their photooxidation derivatives from R-(+)-sclareolide. <i>Journal of Natural Products</i> , 2002 , 65, 661-8	4.9	20
122	Hexacarbonyl dicobalt complexed N-pro-2-ynyl-2-azetidiones: a new entry to N-unsubstituted β -lactams through a Nicholas-type reaction. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 587-588		20
121	New Platinum-Catalysed Dihydroalkoxylation of Allenes. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 2189-2194	5.6	19
120	A New Radical Route to C4-Unsubstituted β -Lactams. <i>Tetrahedron Letters</i> , 1998 , 39, 163-166	2	19
119	The Noncarbonylative Photochemistry of Group 6 Fischer Carbene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 2454-2462	2.3	19
118	Straightforward synthesis of the strong ambergris odorant β -bicyclohomofarnesal and its endo-isomer from R-(+)-sclareolide. <i>Tetrahedron Letters</i> , 2002 , 43, 6351-6353	2	19
117	Towards a general synthesis of 3-metal-substituted β -lactams. <i>Chemistry - A European Journal</i> , 2013 , 19, 11536-40	4.8	18
116	Control over the E/Z selectivity of the catalytic dimerization of group 6 (Fischer) metal carbene complexes. <i>Journal of Organic Chemistry</i> , 2013 , 78, 865-71	4.2	18
115	The selective synthesis of metallanucleosides and metallanucleotides: a new tool for the functionalization of nucleic acids. <i>Chemistry - A European Journal</i> , 2012 , 18, 12603-8	4.8	18
114	Concerning the Electronic Control of Torsion Angles in Biphenyls. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 6502-6506	3.2	18
113	Metal-tuned photochemistry of metallocene-substituted chromium(0)-carbene complexes. <i>Chemistry - A European Journal</i> , 2009 , 15, 593-6	4.8	18
112	Synthesis of ferrocene tethered open and macrocyclic bis-beta-lactams and bis-beta-amino acid derivatives. <i>Dalton Transactions</i> , 2009 , 8399-405	4.3	18
111	Thermal and photochemical reactions of chromium carbenes and sulfur ylides: an efficient entry to functionalized vinyl ethers. <i>Organometallics</i> , 1992 , 11, 1979-1981	3.8	18
110	Remote Control by π -Conjugation of the Emissive Properties of Fischer Carbene-BODIPY Dyads. <i>Inorganic Chemistry</i> , 2016 , 55, 2737-47	5.1	18
109	The sequential building of chiral macrocyclic bis-beta-lactams by double staudinger-Cu-catalyzed azide-alkyne cycloadditions. <i>Chemistry - A European Journal</i> , 2010 , 16, 1592-600	4.8	17

108	Double Group Transfer Reactions as Indicators of Aromatic Stabilization. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 5410-5415	3.2	17
107	Chromium(0) Carbene Complexes Bearing Imino Tethers: Synthesis and Photochemical Reactivity. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5604-5605	16.4	17
106	Iminodithiocarbonates as Formaldehyde Imine Equivalents: Sequential Two Step Approach to 4-Unsubstituted β -Lactams through Chromium(0) Carbene Photocycloaddition-Nickel Boride Desulfurization. <i>Journal of Organic Chemistry</i> , 1994 , 59, 7934-7936	4.2	17
105	Structure and photoreactivity of stable zwitterionic group 6 metal allenyls. <i>Chemical Communications</i> , 2013 , 49, 1112-4	5.8	16
104	Synthesis, Structure and Electrochemistry of Macrocyclic Tetrametallic Group 6 (Fischer) Carbene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 842-849	2.3	16
103	Synthesis of alpha-onoceradiene-like terpene dimers by intermolecular metathesis processes. <i>Organic Letters</i> , 2006 , 8, 593-6	6.2	16
102	Electrospray mass spectra of group 6 (Fischer) carbenes in the presence of electron-donor compounds. <i>Journal of Mass Spectrometry</i> , 2003 , 38, 151-6	2.2	16
101	New Rearrangement and Fragmentation Processes of Group 6 Alkoxyalkynyl (Fischer) Carbene Complexes Induced by Aromatic Diamines. <i>Organometallics</i> , 2003 , 22, 384-386	3.8	16
100	Reduction of cyclic group 6 Fischer carbene complexes: a case of exquisite regioselectivity. <i>Journal of Organic Chemistry</i> , 2003 , 68, 3538-45	4.2	16
99	New Reactivity Modes of Chromium(0) Fischer Carbene Complexes: Unprecedented Insertion of a Carbene Ligand into an Active B-H Bond. <i>Organometallics</i> , 2003 , 22, 5092-5099	3.8	16
98	The Gold(I)- and Silver(I)-Catalyzed Nicholas Reaction. <i>Organometallics</i> , 2013 , 32, 951-956	3.8	15
97	Mono- and dinuclear osmium N,N'-di- and tetraphenylbipyridyls and extended bipyridyls. Synthesis, structure and electrochemistry. <i>Dalton Transactions</i> , 2013 , 42, 3597-608	4.3	15
96	A new family of "clicked" estradiol-based low-molecular-weight gelators having highly symmetry-dependent gelation ability. <i>Chemical Communications</i> , 2011 , 47, 10281-3	5.8	15
95	Insight into the Mechanism of the Reduction of π -Unsaturated Chromium(0) Carbenes by NaBH ₄ . <i>Organometallics</i> , 1999 , 18, 3252-3254	3.8	15
94	The asymmetric synthesis of 2,3-benzocarapenems by intramolecular aryl radical cyclizations. <i>Tetrahedron: Asymmetry</i> , 1996 , 7, 2203-2206		15
93	Reaction of arylglyoxals with 2-amino heterocycles. <i>Journal of Organic Chemistry</i> , 1989 , 54, 5763-5768	4.2	15
92	On the reaction of phenylglyoxal with 2-aminopyridine. <i>Tetrahedron Letters</i> , 1986 , 27, 1627-1630	2	15
91	Desulfinylation of Ag(I) Sulfinyl Mesoionic Carbenes: Preparation of C-Unsubstituted Au(I)-1,2,3-Triazole Carbene Complexes. <i>Organic Letters</i> , 2017 , 19, 822-825	6.2	14

90	On the use of metal purine derivatives (M=Ir, Rh) for the selective labeling of nucleosides and nucleotides. <i>Chemistry - A European Journal</i> , 2014 , 20, 3831-8	4.8	14
89	Steroid Derived Mesoionic Gold and Silver Mono- and Polymetallic Carbenes. <i>Inorganic Chemistry</i> , 2015 , 54, 11174-85	5.1	14
88	Synthesis of a pH dependent covalent imprinted polymer able to recognize organotin species. <i>Analyst, The</i> , 2006 , 131, 98-105	5	14
87	Synthesis of 2-Acylvinyl Ethers by Reaction of Chromium (Fischer) Carbene Complexes and Stabilized Sulfur Ylides1. <i>Organometallics</i> , 1996 , 15, 4612-4617	3.8	14
86	Synthesis of fused tricyclic β -lactams by the Pauson-Khand cyclization of enyne-2-azetidiones. <i>Tetrahedron Letters</i> , 1996 , 37, 6901-6904	2	14
85	Osmium-Promoted π Bond Activation Reactions on Nucleosides. <i>Organometallics</i> , 2020 , 39, 312-323	3.8	13
84	Behavior of Group 6 Fischer Aminocarbene Complexes in a Supercharged Medium: A Single Electron Transfer π Atom Transfer Process. <i>Organometallics</i> , 2009 , 28, 2762-2772	3.8	13
83	Cu-catalyzed synthesis of symmetric group 6 (Fischer) bis-carbene complexes. <i>Organic Letters</i> , 2008 , 10, 365-8	6.2	13
82	Effect of the tether on the Mg(II), Ca(II), Cu(II) and Fe(III) stability constants and pM values of chelating agents related to EDDHA. <i>Dalton Transactions</i> , 2004 , 3741-7	4.3	13
81	Reactions of stabilized sulfur ylides with π unsaturated alkoxychromiumcarbene complexes. <i>Tetrahedron</i> , 1996 , 52, 13215-13226	2.4	13
80	Reaction of chromium (Fischer) carbenes and sulfilimines. <i>Journal of Organic Chemistry</i> , 1993 , 58, 3886-3894	3.2	13
79	A novel fragmentation of the β -lactam ring: stereoselective entry to vinyl ethers by reaction of N-(arylidene(or alkylidene)amino)-2-azetidiones with ozone. <i>Journal of Organic Chemistry</i> , 1993 , 58, 297-298	4.2	13
78	Mono- and bimetallic zwitterionic chromium(0) and tungsten(0) allenyls. <i>Inorganic Chemistry</i> , 2015 , 54, 5450-61	5.1	12
77	An Entry to Mixed NHC-Fischer Carbene Complexes and Zwitterionic Group 6 Metal Alkenyls. <i>Chemistry - A European Journal</i> , 2016 , 22, 13521-31	4.8	12
76	The photochemical reaction of vinylaziridines and vinylazetidines with chromium(0) and molybdenum(0) (Fischer) carbene complexes. <i>Chemistry - A European Journal</i> , 2014 , 20, 1359-66	4.8	12
75	Insight into the Mechanism of Quinoline Formation by the Chromium(0) Fischer Carbene Catalytic Transmetalation to Palladium and Rhodium: Application to the Synthesis of the Alkaloids of <i>Ruta chalepensis</i> . <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 3293-3300	3.2	12
74	New fragmentation and rearrangement reactions of the azetidine ring promoted by AlEt ₂ Cl. <i>Tetrahedron Letters</i> , 1998 , 39, 467-470	2	12
73	Study of the ESI-mass spectrometry ionization mechanism of Fischer carbene complexes. <i>Journal of Organic Chemistry</i> , 2005 , 70, 5269-77	4.2	12

72	Methodology to Screen New Iron Chelates: Prediction of Their Behavior in Nutrient Solution and Soil Conditions. <i>Journal of Plant Nutrition</i> , 2003 , 26, 1955-1968	2.3	12
71	Low temperature carbene transfer from alkoxychromium(0) (Fischer) carbene complexes. <i>Tetrahedron Letters</i> , 2001 , 42, 5435-5438	2	12
70	Addition of Et ₃ B to π -Unsaturated Alkoxychromium(0) Carbene Complexes. <i>Organometallics</i> , 2002 , 21, 989-992	3.8	12
69	The unusual Baeyer-Villiger rearrangement of β -lactam aldehydes: Totally stereoselective entry to cis-3-substituted 4-formyloxy-2-azetidinones. <i>Tetrahedron Letters</i> , 1995 , 36, 3401-3404	2	12
68	Stereoselective Synthesis of Vinyl Ethers by the Reaction of N-(Arylidene(or alkylidene)amino)-2-azetidinones with Ozone. <i>Journal of Organic Chemistry</i> , 1995 , 60, 6012-6016	4.2	12
67	2,3-Diaza-1,3-dienes (Azines) as Substrates for the Staudinger Reaction. Synthesis and Reactivity of N-Imino-.beta.-lactams. <i>Journal of Organic Chemistry</i> , 1994 , 59, 8003-8010	4.2	12
66	A click approach to polymetallic chromium(0) and tungsten(0) Fischer-carbene complexes and their use in the synthesis of functionalized polymetallic metal-carbene complexes. <i>Chemistry - A European Journal</i> , 2013 , 19, 1429-35	4.8	11
65	The asymmetric synthesis of novel tin-functionalized carbapenam systems through radical cyclization of enyne β -lactams. <i>Tetrahedron: Asymmetry</i> , 1995 , 6, 1055-1058		11
64	First Insertions of Carbene Ligands into Ge-N and Si-N Bonds. <i>Chemistry - A European Journal</i> , 2017 , 23, 4287-4291	4.8	10
63	Nucleobases Having M π Bonds: An Emerging Bio-Organometallic Field. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 1617-1623	3.2	10
62	Fluorescence Quenching in BODIPYs Having Ir- and Rh-Tethered Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 844-852	2.3	10
61	Gold(I)-Catalyzed Cycloisomerization-Dimerization Cascade of Benzene-Tethered 1,6-Enynes. <i>Journal of Organic Chemistry</i> , 2017 , 82, 7546-7554	4.2	10
60	Biological activity of Fe(III) aquo-complexes towards ferric chelate reductase (FCR). <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2272-81	3.9	10
59	Synthesis of 2-Azetidinones Incorporating Carbenechromium(0) Moieties and Their Use in the Preparation of Penicillin- and Cephalosporin-Containing Peptides. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 2998-3005	3.2	10
58	On the structure and spin states of Fe(III)-EDDHA complexes. <i>Inorganic Chemistry</i> , 2006 , 45, 5321-7	5.1	10
57	C ₈ K-Promoted Self-Condensation and Self-Condensation-Cycloisomerization Reactions of π -Unsaturated Fischer Carbene Complexes. <i>Angewandte Chemie</i> , 2002 , 114, 3592-3595	3.6	10
56	A Study of the Photochemical Isomerization in β -Lactam Rings. <i>Heterocycles</i> , 2001 , 55, 511	0.8	10
55	A new approach to N-aryl- and N-(2-heteroaryl)imidates from chromium carbenes and sulfilimines. <i>Organometallics</i> , 1991 , 10, 11-12	3.8	10

54	An Efficient and Tunable Route to Bis(1,2,3-triazol-1-yl)methane-Based Nitrogen Compounds. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 682-687	3.2	10
53	Triazole vs. triazolium carbene ligands in the site-selective cyclometallation of o-carboranes by M(III) (M = Ir, Rh) complexes. <i>Dalton Transactions</i> , 2018 , 47, 9975-9979	4.3	10
52	Computational Chemistry; A Useful Tool for the Chemical Synthesis of Complex Molecules, Heterocycles and Catalysts. <i>Synlett</i> , 2013 , 24, 535-549	2.2	9
51	Multicomponent Synthesis of Pyran-2-ylidene Chromium(0) and Tungsten(0) Fischer Carbene Complexes. <i>Organometallics</i> , 2010 , 29, 1607-1611	3.8	9
50	A Three-Step General Synthesis of 2-Azetidinones Bearing N-Dehydroamino Acid Side Chains. <i>European Journal of Organic Chemistry</i> , 1998 , 1998, 2913-2921	3.2	9
49	Synthesis of 1,3-bridged β -lactams embedded in a macrocyclic structure. <i>Tetrahedron</i> , 2008 , 64, 9592-9598	2.4	9
48	Chromium Carbenes as Substrates in Cyclopropanation Reactions: 1,4- vs 1,2-Addition in the Reaction of Sulfur Ylides and α,β -Unsaturated Alkoxychromium(0) Carbenes. <i>Organometallics</i> , 1994 , 13, 2934-2936	3.8	9
47	The Reversible Nicholas Reaction in the Synthesis of Highly Symmetric Natural-Product-Based Macrocycles. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 1054-1067	3.2	8
46	New Methodology for the Synthesis of 3-Substituted Coumarins via Palladium-Catalyzed Site-Selective Cross-Coupling Reactions. <i>Synlett</i> , 2010 , 2010, 2918-2922	2.2	8
45	Chromium Imidate Complexes from the Metathesis-Like Reaction of Phosphinimines and Chromium(0) Fischer Carbene Complexes. <i>Organometallics</i> , 2004 , 23, 1851-1856	3.8	8
44	One-pot synthesis of N-(2-heteroaryl)- α -amino esters by the regiospecific 2-N-(α -alkoxycarbonyl)alkylation of 2-aminoazines and -azoles with glyoxals and alcohols promoted by perchloric acid. <i>Journal of Organic Chemistry</i> , 1990 , 55, 3143-3147	4.2	8
43	Synthesis of new bioorganometallic Ir- and Rh-complexes having β -lactam containing ligands. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 286-97	3.9	7
42	Chiral Sulfur Functional Groups as Definers of the Chirality at the Metal in Ir and Rh Half-Sandwich Complexes: A Combined CD/X-ray Study. <i>Chemistry - A European Journal</i> , 2017 , 23, 14523-14531	4.8	7
41	Synthesis and chemical characterization of the novel agronomically relevant pentadentate chelate 2-(2-((2-hydroxybenzyl)amino)ethylamino)-2-(2-hydroxyphenyl)acetic acid (DCHA). <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 7908-14	5.7	7
40	The reaction of β -diketones with primary heteroaromatic amines. Synthesis and reactions of imidazo[1,2-a]pyridin-3(2H)-ones and N-heteroaryl β -iminoketones. <i>Tetrahedron</i> , 1989 , 45, 6841-6856	2.4	7
39	Mono- and Bimetallic Alkynyl Metallocenes and Half-Sandwich Complexes: A Simple and Versatile Synthetic Approach. <i>Chemistry - A European Journal</i> , 2016 , 22, 15645-15649	4.8	7
38	Triazole-Containing [FeFe] Hydrogenase Mimics: Synthesis and Electrocatalytic Behavior. <i>Inorganic Chemistry</i> , 2019 , 58, 16267-16278	5.1	7
37	Two Types of β -Allenyl Complexes from Reactions of Silylenes and Germenylenes with Chromium Fischer Alkynyl(alkoxy)carbenes. <i>Chemistry - A European Journal</i> , 2019 , 25, 8635-8642	4.8	6

36	Central (S) to Central (M=Ir, Rh) to Planar (Metallocene, M=Fe, Ru) Chirality Transfer Using Sulfoxide-Substituted Mesoionic Carbene Ligands: Synthesis of Bimetallic Planar Chiral Metallocenes. <i>Chemistry - A European Journal</i> , 2019 , 25, 13344-13353	4.8	6
35	Facile deferration of commercial fertilizers containing iron chelates for their NMR analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5143-7	5.7	6
34	Synthesis of new polymetallic carbene complexes: Uracil analogs. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 6096-6100	2.3	6
33	The reaction of benzil and 2-aminopyridine. A correction. <i>Tetrahedron Letters</i> , 1985 , 26, 247-248	2	6
32	Silver(I)-Catalyzed Addition of Phenols to Alkyne Cobalt Cluster Stabilized Carbocations. <i>Chemistry - A European Journal</i> , 2016 , 22, 9015-23	4.8	6
31	Sequential Reactions of Alkynes on an Iridium(III) Single Site. <i>Chemistry - A European Journal</i> , 2017 , 23, 8941-8948	4.8	5
30	A More Realistic Teaching Style in Spectroscopic Instruction. <i>Journal of Chemical Education</i> , 2001 , 78, 765	2.4	5
29	Reversible Carbene Insertion into a Ge-N Bond and Insights into CO and Carbene Substitution Reactions Involving Amidinatogermynes and Fischer Carbene Complexes. <i>Chemistry - A European Journal</i> , 2019 , 25, 1588-1594	4.8	5
28	Effect of a π -Bonded-M-1,2,3-triazole (M = Co, Ru) on the Structure and Reactivity of Group 6 Alkoxy (Fischer) Carbenes. <i>Inorganic Chemistry</i> , 2017 , 56, 2801-2811	5.1	4
27	GC-MS Study of Mono- and Bishaloethylphosphonates Related to Schedule 2.B.04 of the Chemical Weapons Convention: The Discovery of a New Intramolecular Halogen Transfer. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1510-9	3.5	4
26	1,2,3-Triazolium-Derived Mesoionic Carbene Ligands Bearing Chiral Sulfur-Based Moieties: Synthesis, Catalytic Properties, and Their Role in Chirality Transfer. <i>ACS Omega</i> , 2019 , 4, 12983-12994	3.9	4
25	C-branched chiral (racemic) macrocyclic amino acids: structure of their Ni(II), Zn(II) and Cu(II) complexes. <i>Dalton Transactions</i> , 2011 , 40, 9145-53	4.3	4
24	The Photochemical Reactivity of the π -Photo-Inert Tungsten (Fischer) Carbene Complexes. <i>Angewandte Chemie</i> , 2006 , 118, 131-134	3.6	4
23	Synthesis of β -hydroxy acid derivatives by the photochemical reaction of O-silylchromium(0) carbene complexes and nucleophiles. <i>Inorganica Chimica Acta</i> , 1994 , 222, 261-266	2.7	4
22	1,3-iminoketones as new synthons for the stereocontrolled preparation of useful carbapenem intermediates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993 , 3, 2369-2374	2.9	4
21	Novel Mechanistic Aspects of the 4-Acyl- β -lactam Formation from 1,2-Iminoketones. <i>Heterocycles</i> , 1988 , 27, 1317	0.8	4
20	Ricin and Saxitoxin: Two Natural Products That Became Chemical Weapons. <i>Journal of Chemical Education</i> , 2020 , 97, 1707-1714	2.4	4
19	Unexpected Zwitterionic Allenyls from Silylenes and a Fischer Alkynylcarbene: A Remarkable Silylene-Promoted Rearrangement. <i>Chemistry - A European Journal</i> , 2019 , 25, 2222-2225	4.8	4

18	Sulfur Groups Improve the Performance of Triazole- and Triazolium-Based Interaction Units in Anion Binding. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3341-3346	4.2	3
17	Synthesis of Optically Pure 2-Azetidinones Having N-Dehydroamino Acid Side-Chains. <i>Synlett</i> , 1998 , 1998, 416-418	2.2	3
16	Chiral-at-Metal BODIPY-Based Iridium(III) Complexes: Synthesis and Luminescence Properties. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 4045-4053	2.3	3
15	Revisiting the photochemical synthesis of [FeFe]-hydrogenase mimics: reaction optimization, mechanistic study and electrochemical behaviour.. <i>RSC Advances</i> , 2020 , 10, 29855-29867	3.7	3
14	Deuteration mechanistic studies of hydrogenase mimics. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3934-3950	3.8	3
13	The organocatalytic desymmetrization of meso-ferrocene anhydride. <i>Tetrahedron Letters</i> , 2017 , 58, 326-328	3.2	2
12	Uncatalyzed addition of alcohols and amines to the C=N bond of the monoimine from benzil and 2-aminopyridine. <i>Tetrahedron Letters</i> , 1982 , 23, 5585-5586	2	2
11	Understanding the Reactivity of Group 6 Metal (M = Cr, W) Alkynyl Fischer Carbene Complexes with Multi-Reactive Masked Dienes. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 369-377	3.2	2
10	A Model for the Prediction of the Redox Potentials in [FeFe]-Clusters from the Electronic Properties of Isocyanide Ligands. <i>ChemistrySelect</i> , 2020 , 5, 7177-7182	1.8	1
9	Total Synthesis 2015 , 1-28		1
8	Role of imine isomerization in the stereocontrol of the Staudinger reaction between ketenes and imines.. <i>RSC Advances</i> , 2021 , 12, 104-117	3.7	1
7	Unexpected Reaction Pathways Leading to Thiodiglycol During the Degradation of Long-Chain Sulfur Mustards. <i>Journal of Organic Chemistry</i> , 2018 , 83, 12432-12439	4.2	1
6	A Three-Step General Synthesis of 2-Azetidinones Bearing N-Dehydroamino Acid Side Chains 1998 , 1998, 2913		1
5	Preparation and Degradation of Rhodium and Iridium Diolenyl Catalysts for the Acceptorless and Base-Free Dehydrogenation of Secondary Alcohols. <i>Organometallics</i> , 2021 , 40, 989-1003	3.8	0
4	Stereochemistry, Controlled or Uncontrolled? 2013 , 137-167		
3	The Failure of Epoxide Ring Opening and the Limits of Cascade Reactions 2013 , 251-262		
2	Transition Metal-Mediated Transformations vs [Conventional] Reactions 2013 , 169-200		
1	- The Magazine of the Spanish Royal Society of Chemistry. <i>Chimia</i> , 2021 , 75, 988-990	1.3	

