Feliu Maseras

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#	Paper	IF	Citations
285	IMOMM: A new integrated ab initio + molecular mechanics geometry optimization scheme of equilibrium structures and transition states. <i>Journal of Computational Chemistry</i> , 1995 , 16, 1170-1179	3.5	1464
284	Proton abstraction mechanism for the palladium-catalyzed intramolecular arylation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1066-7	16.4	643
283	Proton-abstraction mechanism in the palladium-catalyzed intramolecular arylation: substituent effects. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6880-6	16.4	479
282	Direct arylation of arene C-H bonds by cooperative action of NHcarbene-ruthenium(II) catalyst and carbonate via proton abstraction mechanism. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1156	- 7 6.4	347
281	A DFT Study of the Full Catalytic Cycle of the Suzuki M iyaura Cross-Coupling on a Model System. <i>Organometallics</i> , 2006 , 25, 3647-3658	3.8	324
280	Transition metal polyhydrides: from qualitative ideas to reliable computational studies. <i>Chemical Reviews</i> , 2000 , 100, 601-36	68.1	304
279	Managing the computational chemistry big data problem: the ioChem-BD platform. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 95-103	6.1	289
278	Computational characterization of the role of the base in the Suzuki-Miyaura cross-coupling reaction. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9298-307	16.4	284
277	Computational perspective on Pd-catalyzed C-C cross-coupling reaction mechanisms. <i>Accounts of Chemical Research</i> , 2013 , 46, 2626-34	24.3	253
276	Merging sustainability with organocatalysis in the formation of organic carbonates by using CO(2) as a feedstock. <i>ChemSusChem</i> , 2012 , 5, 2032-8	8.3	247
275	Redox Non-innocent Ligand Controls Water Oxidation Overpotential in a New Family of Mononuclear Cu-Based Efficient Catalysts. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6758-61	16.4	210
274	[(NHC)AuI]-catalyzed formation of conjugated enones and enals: an experimental and computational study. <i>Chemistry - A European Journal</i> , 2007 , 13, 6437-51	4.8	168
273	C-C reductive elimination in palladium complexes, and the role of coupling additives. A DFT study supported by experiment. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3650-7	16.4	167
272	A valuable, inexpensive Cui/n-heterocyclic carbene catalyst for the selective diboration of styrene. <i>Chemistry - A European Journal</i> , 2007 , 13, 2614-21	4.8	145
271	Experimental and theoretical investigations of new dinuclear palladium complexes as precatalysts for the amination of aryl chlorides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6376-90	16.4	141
270	A general mechanism for the copper- and silver-catalyzed olefin aziridination reactions: concomitant involvement of the singlet and triplet pathways. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1338-48	16.4	136
269	Metal-arene interactions in dialkylbiarylphosphane complexes of copper, silver, and gold. <i>Chemistry - A European Journal</i> , 2010 , 16, 5324-32	4.8	135

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268	Catecholborane Bound to Titanocene. Unusual Coordination of Ligand Bonds. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10936-10937	16.4	133
267	Application of the New Integrated MO + MMI(IMOMM) Method to the Organometallic Reaction Pt(PR3)2 + H2 (R = H, Me, t-Bu, and Ph). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2573-2580		130
266	Unraveling the origin of regioselectivity in rhodium diphosphine catalyzed hydroformylation. A DFT QM/MM study. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7630-7	16.4	127
265	Computational study of the transmetalation process in the SuzukiMiyaura cross-coupling of aryls. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 4459-4466	2.3	122
264	Catalytic Mechanism of Galactose Oxidase: A Theoretical Study. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8031-8036	16.4	117
263	Bidentate phosphines as ligands in the palladium-catalyzed intramolecular arylation: the intermolecular base-assisted proton abstraction mechanism. <i>Tetrahedron</i> , 2008 , 64, 6021-6029	2.4	115
262	Gold(I)-catalyzed intermolecular hydroalkoxylation of allenes: a DFT study. <i>Organic Letters</i> , 2009 , 11, 2237-40	6.2	114
261	Selective homogeneous and heterogeneous gold catalysis with alkynes and alkenes: similar behavior, different origin. <i>ChemPhysChem</i> , 2008 , 9, 1624-9	3.2	111
260	Stereoselective and Versatile Preparation of Tri- and Tetrasubstituted Allylic Amine Scaffolds under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11970-8	16.4	109
259	Computational Evidence of the Importance of Substituent Bulk on Agostic Interactions in Ir(H)2(PtBu2Ph)2+. <i>Journal of the American Chemical Society</i> , 1998 , 120, 361-365	16.4	106
258	Theory Does Not Support an Osmaoxetane Intermediate in the Osmium-Catalyzed Dihydroxylation of Olefins. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11660-11661	16.4	104
257	Computational approaches to asymmetric synthesis. New Journal of Chemistry, 2007, 31, 333	3.6	99
256	Protonation of transition-metal hydrides: a not so simple process. <i>Chemical Society Reviews</i> , 2009 , 38, 957-66	58.5	93
255	A critical analysis of the cyclic and open alternatives of the transmetalation step in the stille cross-coupling reaction. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14571-8	16.4	93
254	Computational and Experimental Test of Steric Influence on Agostic Interactions: A Homologous Series for Ir(III). <i>Journal of the American Chemical Society</i> , 1999 , 121, 97-106	16.4	92
253	Scope and Challenge of Computational Methods for Studying Mechanism and Reactivity in Homogeneous Catalysis. <i>ACS Catalysis</i> , 2019 , 9, 6803-6813	13.1	91
252	A Domino Process toward Functionally Dense Quaternary Carbons through Pd-Catalyzed Decarboxylative C(sp)-C(sp) Bond Formation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3981-	1 987	87
251	Bond energy M-C/H-C correlations: dual theoretical and experimental approach to the sensitivity of M-C bond strength to substituents. <i>Chemical Communications</i> , 2003 , 490-1	5.8	85

250	Reactions of a HexahydrideDsmium Complex with Aromatic Ketones: CH Activation versus CE Activation§. <i>Organometallics</i> , 2001 , 20, 442-452	3.8	85
249	Mechanism of the gold-catalyzed cyclopropanation of alkenes with 1,6-enynes. <i>Chemical Science</i> , 2011 , 2, 141-149	9.4	83
248	Inertness of the Aryl E Bond toward Oxidative Addition to Osmium and Rhodium Complexes: Thermodynamic or Kinetic Origin?. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12634-12640	16.4	83
247	Calculation of Reaction Free Energies in Solution: A Comparison of Current Approaches. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1392-1399	2.8	82
246	Theoretical Study on the Origin of Enantioselectivity in the Bis(dihydroquinidine)-3,6-pyridazinel Dsmium Tetroxide-Catalyzed Dihydroxylation of Styrene. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1317-1323	16.4	82
245	Transition metal catalysis by density functional theory and density functional theory/molecular mechanics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012 , 2, 375-385	7.9	78
244	Application of the natural population analysis to transition-metal complexes. Should the empty metal p orbitals be included in the valence space?. <i>Chemical Physics Letters</i> , 1992 , 195, 500-504	2.5	77
243	Chemo-, regio-, and stereoselective silver-catalyzed aziridination of dienes: scope, mechanistic studies, and ring-opening reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5342-50	16.4	76
242	Mechanism of Alkane CH Bond Activation by Copper and Silver Homoscorpionate Complexes. Organometallics, 2006 , 25, 5292-5300	3.8	74
241	practical implications of boron-to-zinc transmetalation for the catalytic asymmetric arylation of aldehydes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1098-101	16.4	71
240	Palladium round trip in the Negishi coupling of trans-[PdMeCl(PMePh2)2] with ZnMeCl: an experimental and DFT study of the transmetalation step. <i>Chemistry - A European Journal</i> , 2010 , 16, 8596	5 -4 9 ⁸	70
239	Brfisted acid catalyzed Morita-Baylis-Hillman reaction: a new mechanistic view for thioureas revealed by ESI-MS(/MS) monitoring and DFT calculations. <i>Chemistry - A European Journal</i> , 2009 , 15, 124	60 ⁸ 9	69
238	QM/MM methods in inorganic chemistry. <i>Dalton Transactions</i> , 2008 , 2911-9	4.3	69
237	The IMOMM method opens the way for the accurate calculation of BealItransition metal complexes. <i>Chemical Communications</i> , 2000 , 1821-1827	5.8	69
236	RuX(CO)(NO)L2 and Ru(CO)(NO)L2+: Ru(0) or Ru(II) or In Between?. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8642-8651	16.4	68
235	Computational rationalization of the dependence of the enantioselectivity on the nature of the catalyst in the vanadium-catalyzed oxidation of sulfides by hydrogen peroxide. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3624-34	16.4	68
234	Influence of media and homoconjugate pairing on transition metal hydride protonation. An IR and DFT study on proton transfer to CpRuH(CO)(PCy3). <i>Journal of the American Chemical Society</i> , 2003 , 125, 7715-25	16.4	68
233	A Density Functional Study on the Effect of the Trans Axial Ligand of Cobalamin on the Homolytic Cleavage of the Co t Bond. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7564-7571	3.4	68

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232	A quantum mechanics/molecular mechanics study of the highly enantioselective addition of diethylzinc to benzaldehyde promoted by (R)-2-piperidino-1,1,2-triphenylethanol. <i>Journal of Organic Chemistry</i> , 2000 , 65, 7303-9	4.2	67	
231	Towards configurationally stable [4]helicenes: enantioselective synthesis of 12-substituted 7,8-dihydro[4]helicene quinones. <i>Chemistry - A European Journal</i> , 2008 , 14, 603-20	4.8	65	
230	Synthesis of PCP-supported nickel complexes and their reactivity with carbon dioxide. <i>Chemistry - A European Journal</i> , 2012 , 18, 6915-27	4.8	63	
229	Mechanistic insights into the transmetalation step of a SuzukiMiyaura reaction of 2(4)-bromopyridines: characterization of an intermediate. <i>Tetrahedron</i> , 2008 , 64, 7437-7443	2.4	63	
228	Oxidative Additions of Aryl Halides to Palladium Proceed through the Monoligated Complex. <i>ChemCatChem</i> , 2013 , 5, 3604-3609	5.2	62	
227	Competitive and selective Csp3-Br versus Csp2-Br bond activation in palladium-catalysed Suzuki cross-coupling: an experimental and theoretical study of the role of phosphine ligands. <i>Chemistry - A European Journal</i> , 2010 , 16, 13390-7	4.8	62	
226	Highly modular P-OP ligands for asymmetric hydrogenation: synthesis, catalytic activity, and mechanism. <i>Chemistry - A European Journal</i> , 2010 , 16, 6495-508	4.8	61	
225	Microkinetic modeling in homogeneous catalysis. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018 , 8, e1372	7.9	60	
224	Rationale for the sluggish oxidative addition of aryl halides to Au(I). <i>Chemical Communications</i> , 2014 , 50, 1533-6	5.8	59	
223	The importance of conformational search: a test case on the catalytic cycle of the SuzukiMiyaura cross-coupling. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 639-646	1.9	57	
222	Experimental and computational studies of hydrogen bonding and proton transfer to [Cp*Fe(dppe)H]. <i>Chemistry - A European Journal</i> , 2005 , 11, 873-88	4.8	57	
221	Amine conformational change and spin conversion induced by metal-assisted ligand oxidation: from the seven-coordinate iron(II)IPAA complex to the two oxidized iron(II)Ipy)3tren isomers. Characterization, crystal structures, and density functional study. <i>Inorganica Chimica Acta</i> , 2000 ,	2.7	57	
220	Oxidative Coupling Mechanisms: Current State of Understanding. <i>ACS Catalysis</i> , 2018 , 8, 1161-1172	13.1	56	
219	Computational study with DFT and kinetic models on the mechanism of photoinitiated aromatic perfluoroalkylations. <i>Organic Letters</i> , 2015 , 17, 2676-9	6.2	55	
218	The Transmetalation Process in SuzukiMiyaura Reactions: Calculations Indicate Lower Barrier via Boronate Intermediate. <i>ChemCatChem</i> , 2014 , 6, 3132-3138	5.2	55	
217	Catalytic cross-coupling of diazo compounds with coinage metal-based catalysts: an experimental and theoretical study. <i>Dalton Transactions</i> , 2013 , 42, 4132-8	4.3	55	
216	Density functional study on the mechanism of the vanadium-catalyzed oxidation of sulfides by hydrogen peroxide. <i>Journal of Organic Chemistry</i> , 2003 , 68, 4265-74	4.2	55	
215	Experimental and Theoretical Studies of Bonding and Oxidative Addition of Germanes and Silanes, EH4-nPhn (E = Si, Ge; n = 0B), to Mo(CO)(diphosphine)2. The First Structurally Characterized Germane ©Complex. <i>Organometallics</i> , 2003 , 22, 5307-5323	3.8	55	

214	Cyclobutene vs 1,3-Diene Formation in the Gold-Catalyzed Reaction of Alkynes with Alkenes: The Complete Mechanistic Picture. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10302-10311	16.4	52
213	A DFT Study of the Effect of the Ligands in the Reductive Elimination from Palladium Bis(allyl) Complexes Organometallics, 2010, 29, 4983-4991	3.8	52
212	Why is the Suzuki-Miyaura cross-coupling of sp3 carbons in alpha-bromo sulfoxide systems fast and stereoselective? A DFT study on the mechanism. <i>Journal of Organic Chemistry</i> , 2009 , 74, 4049-54	4.2	52
211	Single Electron Transfer Steps in Water Oxidation Catalysis. Redefining the Mechanistic Scenario. <i>ACS Catalysis</i> , 2017 , 7, 1712-1719	13.1	51
210	On the Origin of ⊞and ∰Agostic Distortions in Early-Transition-Metal Alkyl Complexes. Organometallics, 2008 , 27, 1128-1134	3.8	51
209	Critical Role of the Correlation Functional in DFT Descriptions of an Agostic Niobium Complex. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1329-36	6.4	51
208	A theoretical analysis of a classic example of supramolecular catalysis. <i>Chemical Communications</i> , 2007 , 748-50	5.8	50
207	Crucial role of anions on the deprotonation of the cationic dihydrogen complex trans-[FeH(eta2-H2)(dppe)2]+. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6608-18	16.4	50
206	Hydride Exchange Processes in the Coordination Sphere of Transition Metal Complexes: The OsH3(BH4)(PR3)2 System. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8388-8394	16.4	50
205	Computational Study on the Mechanism of the Acceleration of 1,3-Dipolar Cycloaddition inside Cucurbit[6]uril. <i>ACS Catalysis</i> , 2015 , 5, 2445-2451	13.1	49
204	The role of cyclobutenes in gold(I)-catalysed skeletal rearrangement of 1,6-enynes. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 6105-11	3.9	49
203	Theoretical Study of the Hydrogen Exchange Coupling in the Metallocene Trihydride Complexes [(C5H5)2MH3] $n+$ (M = Mo, W, n = 1; M = Nb, Ta, n = 0). <i>Journal of the American Chemical Society</i> , 1996 , 118, 4617-4621	16.4	49
202	Bonding in Elongated Dihydrogen Complexes. Theoretical Analysis of the Electron Density in [MLn(HIIIH)] Species. <i>Organometallics</i> , 1996 , 15, 2947-2953	3.8	47
201	Toward a mechanistic understanding of oxidative homocoupling: the GlaserHay reaction. <i>Catalysis Science and Technology</i> , 2014 , 4, 4200-4209	5.5	46
200	The Mechanism of the Catalytic Functionalization of Haloalkanes by Carbene Insertion: An Experimental and Theoretical Study. <i>Organometallics</i> , 2009 , 28, 5968-5981	3.8	46
199	Synthesis and Spectroscopic Properties of Dihydrogen Isocyanide Niobocene [Nb(I5-C5H4SiMe3)2(I2-H2)(CNR)]+ Complexes. Experimental and Theoretical Study of the Blocked Rotation of a Coordinated Dihydrogen. <i>Journal of the American Chemical Society</i> , 1997 ,	16.4	46
198	CH and CL agostic interactions in cycloalkyl tris(pyrazolyl)boratoniobium complexes. <i>Dalton Transactions</i> , 2003 , 4057-4064	4.3	46
197	Functional-Group-Tolerant, Silver-Catalyzed N-N Bond Formation by Nitrene Transfer to Amines. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2216-2223	16.4	45

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1	196	Copper-Catalyzed N-F Bond Activation for Uniform Intramolecular C-H Amination Yielding Pyrrolidines and Piperidines. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8912-8916	16.4	45
-	195	Equilibria between alpha- and beta-agostic stabilized rotamers of secondary alkyl niobium complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6000-13	16.4	45
-	194	Molecular hydrogen complexes with a hydride ligand. An ab initio study on the iron hydride, [Fe(PR3)4H(H2)]+, system. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2879-2884	16.4	45
1	193	Phosphine and solvent effects on oxidative addition of CH3Br to Pd(PR3) and Pd(PR3)2 complexes. <i>Dalton Transactions</i> , 2011 , 40, 11089-94	4.3	44
1	192	Agostic interactions in alkyl derivatives of sterically hindered tris(pyrazolyl)borate complexes of niobium. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 635-646	23.2	44
-	191	Dynamic Behavior in Solution of the Trans-Hydridodihydrogen Complex [OsHCl(n2-H2)(CO)(PiPr3)2]: Ab Initio and NMR Studies. <i>Chemistry - A European Journal</i> , 1996 , 2, 815-825	5 ^{4.8}	44
-	190	Light-Driven Enantioselective Organocatalytic	16.4	43
-	189	Preparation and Characterization of OsmiumBtannyl Polyhydrides: d4d2 Oxidative Addition of Neutral Molecules in a Late Transition Metal. <i>Organometallics</i> , 2003 , 22, 2087-2096	3.8	43
-	188	Competition between Steric and Electronic Control of Structure in Ru(CO)2L2LIComplexes. Organometallics, 1997 , 16, 1979-1993	3.8	42
1	187	Density Functional Study on the Effect of the trans Axial Ligand ofB12Cofactors on the Heterolytic Cleavage of the Coll Bond. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 306-315	3.4	42
	186	An unprecedented alpha-C-C agostic interaction in a cyclopropyl tris(pyrazolyl)boratoniobium complex. <i>Chemical Communications</i> , 2003 , 876-7	5.8	42
-	185	Computational study on the difference between the Co-C bond dissociation energy in methylcobalamin and adenosylcobalamin. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 509-17	3.7	42
-	184	Elucidating the Mechanism of Aryl Aminations Mediated by NHC-Supported Nickel Complexes: Evidence for a Nonradical Ni(0)/Ni(II) Pathway. <i>ACS Catalysis</i> , 2018 , 8, 3733-3742	13.1	41
-	183	Mechanistic Studies on Gold-Catalyzed Direct Arene CH Bond Functionalization by Carbene Insertion: The Coinage-Metal Effect. <i>Organometallics</i> , 2017 , 36, 172-179	3.8	41
-	182	Mechanism of the [(NHC)Au(I)]-catalyzed rearrangement of allylic acetates. A DFT study. <i>Organic Letters</i> , 2009 , 11, 81-4	6.2	41
-	181	Applications of Hybrid DFT/Molecular Mechanics to Homogeneous Catalysis. <i>Structure and Bonding</i> , 2004 , 117-150	0.9	41
1	180	Oxidative Addition of Group 14 Element Hydrido Compounds to OsH(2)(eta(2)-CH(2)=CHEt)(CO)(P(i)Pr(3))(2): Synthesis and Characterization of the First Trihydrido-Silyl, Trihydrido-Germyl, and Trihydrido-Stannyl Derivatives of Osmium(IV). <i>Inorganic</i>	5.1	41
-	179	Chemistry, 1996, 35, 1250-1256 Stabilization of the adenosyl radical in coenzyme B12 Ia theoretical study. Chemical Physics Letters, 2004, 386, 174-178	2.5	40

178	The reaction of the unsaturated rhenium fragment {Re(៤-C5Me5)(CO)2} with 1,4-difluorobenzene. Thermal intramolecular conversion of a rhenium (difluorophenyl)(hydride) to Re(៤-C6H4F2) and a [1,4]-metallotropic shift. <i>Dalton Transactions RSC</i> , 2001 , 1452-1461		40
177	Mechanism of the base-assisted displacement of chloride by alcohol in sulfinyl derivatives. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6388-96	4.2	39
176	The effect of the "inert" counteranions in the deprotonation of the dihydrogen complex trans-[FeH(eta 2-H2)(dppe)2]+: kinetic and theoretical studies. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2320-1	16.4	39
175	Intramolecular atom exchange between molecular hydrogen and hydride ligands in cis-[Fe(PR3)4H(H2)]+ complexes. An ab initio theoretical study. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2922-2928	16.4	39
174	Cooperative Reductive Elimination: The Missing Piece in the Oxidative-Coupling Mechanistic Puzzle. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2764-7	16.4	38
173	Reaction of alkynes and azides: not triazoles through copper-acetylides but oxazoles through copper-nitrene intermediates. <i>Chemistry - A European Journal</i> , 2014 , 20, 3463-74	4.8	37
172	Mechanism of Side Reactions in Alkane C?H Bond Functionalization by Diazo Compounds Catalyzed by Ag and Cu Homoscorpionate Complexes DFT Study. <i>ChemCatChem</i> , 2011 , 3, 1646-1652	5.2	37
171	Hybrid quantum-mechanical and molecular mechanics study of Cu atoms deposition on SiO2 surface defects. <i>Chemical Physics Letters</i> , 1998 , 294, 611-618	2.5	37
170	Ab Initio MO and MM Study on the Nature of [Ru(P-P)2"H3"]+ (P-P = dppb, diop, dpmb, dppe) Complexes. <i>Organometallics</i> , 1994 , 13, 4008-4016	3.8	37
169	Halide Abstraction Competes with Oxidative Addition in the Reactions of Aryl Halides with [Ni(PMe Ph)]. <i>Chemistry - A European Journal</i> , 2017 , 23, 16728-16733	4.8	36
168	Thermally Activated Site Exchange and Quantum Exchange Coupling Processes in Unsymmetrical Trihydride Osmium Compounds. <i>Inorganic Chemistry</i> , 1999 , 38, 1814-1824	5.1	36
167	On the Feasibility of Nickel-Catalyzed Trifluoromethylation of Aryl Halides. <i>Organometallics</i> , 2014 , 33, 6531-6543	3.8	35
166	C-H bond activation of benzene by unsaturated I2-cyclopropene and I2-benzyne complexes of niobium. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14239-50	16.4	35
165	Mechanistic and computational studies of the atom transfer radical addition of CCl4 to styrene catalyzed by copper homoscorpionate complexes. <i>Inorganic Chemistry</i> , 2011 , 50, 2458-67	5.1	35
164	Theoretical modeling of the heme group with a hybrid QM/MM method. <i>Journal of Computational Chemistry</i> , 2000 , 21, 282-294	3.5	35
163	A computational view on the reactions of hydrocarbons with coinage metal complexes. <i>Journal of Organometallic Chemistry</i> , 2015 , 784, 2-12	2.3	33
162	Computational characterization of a mechanism for the copper-catalyzed aerobic oxidative trifluoromethylation of terminal alkynes. <i>Chemical Communications</i> , 2013 , 49, 10486-8	5.8	33
161	Computational characterization of the mechanism for coinage-metal-catalyzed carboxylation of terminal alkynes. <i>Journal of Organic Chemistry</i> , 2014 , 79, 11981-7	4.2	32

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160	An unusual example of hypervalent silicon: a five-coordinate silyl group bridging two palladium or nickel centers through a nonsymmetrical four-center two-electron bond. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1103-8	16.4	32	
159	Different van der Waals radii for organic and inorganic halogen atoms: a significant improvement in IMOMM performance. <i>Theoretical Chemistry Accounts</i> , 1997 , 96, 146-150	1.9	32	
158	Copper-Catalyzed Borylative Ring Closing Cl Coupling toward Spiro- and Dispiroheterocycles. <i>ACS Catalysis</i> , 2018 , 8, 2833-2838	13.1	31	
157	Synthesis and reactivity of[OsH{C6H4(CHCHH)}(CO)(PPri3)2] and the formatocompounds[Os{(E)-CHCHPh}(IP-O2CH)(CO)(PPri3)2] and[OsH(IP-O2CH)(CO)(PPri3)2]*. Journal of the Chemical Society Dalton Transactions, 1997, 181-192		31	
156	Polyene Cyclization by a Double Intramolecular Heck Reaction. A DFT Study. <i>Organometallics</i> , 2004 , 23, 2784-2796	3.8	31	
155	DFT Rationalization of the Diverse Outcomes of the Iodine(III)-Mediated Oxidative Amination of Alkenes. <i>Chemistry - A European Journal</i> , 2016 , 22, 7545-53	4.8	31	
154	Hybrid Quantum Mechanics/Molecular Mechanics Methods in Transition Metal Chemistry. <i>Topics in Organometallic Chemistry</i> , 1999 , 165-191	0.6	31	
153	Site Preference Energetics, Fluxionality, and Intramolecular MHIIIHN Hydrogen Bonding in a Dodecahedral Transition Metal Polyhydride <i>Inorganic Chemistry</i> , 1997 , 36, 5505-5511	5.1	30	
152	Dihydrogen to dihydride isomerization mechanism in [(C5Me5)FeH2(Ph2PCH2CH2PPh2)]+ through the experimental and theoretical analysis of kinetic isotope effects. <i>Inorganic Chemistry</i> , 2006 , 45, 1024	8 ⁵ 62	30	
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