

# Zhi-Xiang Wang

## List of Publications by Year in descending order

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106  
papers

3,973  
citations

109321

35  
h-index

138484

58  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-interpenetrating-network all-solid-state polymer electrolyte with liquid crystal constructing efficient ion transport channels for flexible solid lithium-metal batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 157-167.	12.9	23
2	Pyrylium salts acting as both energy transfer and electron transfer photocatalysts for <i>E</i> $\rightarrow$ <i>Z</i> isomerization of activated alkenes and cyclization of cinnamic or biaryl carboxylic acids. <i>Organic Chemistry Frontiers</i> , 2022, 9, 973-978.	4.5	7
3	Visible-light-induced N-heterocyclic carbene mediated cascade transformation of N-alkenoxypridinium salts. <i>Chinese Chemical Letters</i> , 2022, 33, 4298-4302.	9.0	13
4	Alkynyl Sulfonium Salts Can Be Employed as Chalcogen-Bonding Catalysts and Generate Alkynyl Radicals under Blue-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	36
5	Alkynyl Sulfonium Salts Can Be Employed as Chalcogen-Bonding Catalysts and Generate Alkynyl Radicals under Blue-Light Irradiation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	8
6	DFT insight into asymmetric alkyl-alkyl bond formation via nickel-catalysed enantioconvergent reductive coupling of racemic electrophiles with olefins. <i>Chemical Science</i> , 2022, 13, 3728-3739.	7.4	9
7	DFT Mechanistic Insights into Aldehyde Deformylations with Biomimetic Metal-Dioxygen Complexes: Distinct Mechanisms and Reaction Rules. <i>Jacs Au</i> , 2022, 2, 745-761.	7.9	6
8	Innentitelbild: Alkynyl Sulfonium Salts Can Be Employed as Chalcogen-Bonding Catalysts and Generate Alkynyl Radicals under Blue-Light Irradiation ( <i>Angew. Chem.</i> 16/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
9	Divergent isoindolinone synthesis through palladium-catalyzed isocyanide bridging C-H activation. <i>Cell Reports Physical Science</i> , 2022, 3, 100776.	5.6	9
10	N-Heterocyclic Nitreniums Can Be Employed as Photoredox Catalysts for the Single-Electron Reduction of Aryl Halides. <i>Organic Letters</i> , 2022, 24, 4598-4602.	4.6	16
11	Z-Selective $\beta$ -Arylation of $\alpha,\beta$ -Unsaturated Nitriles via [3,3]-Sigmatropic Rearrangement. <i>Angewandte Chemie</i> , 2021, 133, 2369-2375.	2.0	4
12	<i>E</i> -Selective $\beta$ -Arylation of $\alpha,\beta$ -Unsaturated Nitriles via [3,3]-Sigmatropic Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2339-2345.	13.8	21
13	Photoinduced $\beta$ -Alkenylation of Katritzky Salts: Synthesis of $\alpha,\beta$ -Unsaturated Esters. <i>Organic Letters</i> , 2021, 23, 1577-1581.	4.6	22
14	System: A DFT Mechanistic Study. <i>Organic Letters</i> , 2021, 23, 1535-1540.	4.6	15
15	Morita-Baylis-Hillman-Type [3,3]-Rearrangement: Switching from <i>E</i> to <i>Z</i> -Selective $\beta$ -Arylation by New Rearrangement Partners. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11414-11422.	13.8	10
16	Morita-Baylis-Hillman-Type [3,3]-Rearrangement: Switching from <i>Z</i> to <i>E</i> -Selective $\beta$ -Arylation by New Rearrangement Partners. <i>Angewandte Chemie</i> , 2021, 133, 11515-11523.	2.0	2
17	Donor-Acceptor Complex Enables Cascade Radical Cyclization of <i>N</i> -Arylacrylamides with Katritzky Salts. <i>Organic Letters</i> , 2021, 23, 5425-5429.	4.6	15
18	Visible-Light-Induced Selective Photolysis of Phosphonium Iodide Salts for Monofluoromethylations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25477-25484.	13.8	69

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19	Visible-Light-Induced Selective Photolysis of Phosphonium Iodide Salts for Monofluoromethylations. <i>Angewandte Chemie</i> , 2021, 133, 25681-25688.	2.0	8
20	$\hat{\text{I}}^{\pm}$ -C $\hat{\text{H}}$ difluoroalkylation of alkyl sulfoxides <i>via</i> intermolecular Pummerer reaction. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1280-1287.	4.5	5
21	A donor-acceptor complex enables the synthesis of <i>E</i> -olefins from alcohols, amines and carboxylic acids. <i>Chemical Science</i> , 2021, 12, 6684-6690.	7.4	22
22	Additive-Free, Visible-Light-Enabled Decarboxylative Alkylation of Enamides. <i>Organic Letters</i> , 2021, 23, 8262-8266.	4.6	21
23	DFT Mechanistic Account for the Site Selectivity of Electron-Rich C(sp <sup>3</sup> ) $\hat{\text{H}}$ Bond in the Manganese-Catalyzed Aminations. <i>Organic Letters</i> , 2020, 22, 453-457.	4.6	25
24	Photochemical Decarboxylative C(sp <sup>3</sup> ) $\hat{\text{X}}$ Coupling Facilitated by Weak Interaction of N-Heterocyclic Carbene. <i>Organic Letters</i> , 2020, 22, 8059-8064.	4.6	30
25	Highly enantioselective 1,6-addition of dienolates to coumarins and chromones through N-heterocyclic carbene catalysis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3692-3697.	4.5	8
26	How does the nickel catalyst control the doubly enantioconvergent coupling of racemic alkyl nucleophiles and electrophiles? The rebound mechanism. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3411-3419.	4.5	8
27	Visible-Light-Triggered Iodinations Facilitated by Weak Electrostatic Interaction of N-Heterocyclic Carbenes. <i>Organic Letters</i> , 2020, 22, 7187-7192.	4.6	26
28	Red-emissive poly(phenylene vinylene)-derivated semiconductors with well-balanced ambipolar electrical transporting properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10868-10879.	5.5	18
29	Density Functional Theory Mechanistic Study of Ni-Catalyzed Reductive Alkyne-Alkyne Cyclodimerization: Oxidative Cyclization versus Outer-Sphere Proton Transfer. <i>Organic Letters</i> , 2020, 22, 2454-2459.	4.6	18
30	Understanding the Chemoselectivity in Palladium-Catalyzed Three-Component Reaction of <i>o</i> -Bromobenzaldehyde, <i>N</i> -Tosylhydrazone, and Methanol. <i>Organic Letters</i> , 2020, 22, 3251-3257.	4.6	15
31	Asymmetric Iodonio-[3,3]-Sigmatropic Rearrangement to Access Chiral $\hat{\text{I}}^{\pm}$ -Aryl Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2020, 142, 6884-6890.	13.7	32
32	Site-Selective Pyridyl Alkyl Ketone Synthesis from <i>N</i> -Alkenoxyppyridiniums through Boekelheide-Type Rearrangements. <i>Organic Letters</i> , 2020, 22, 5617-5621.	4.6	13
33	Palladium-Catalyzed Three-Component Coupling Reaction of <i>o</i> -Bromobenzaldehyde, <i>N</i> -Tosylhydrazone, and Methanol. <i>Organic Letters</i> , 2020, 22, 2087-2092.	4.6	25
34	DFT Mechanistic Insight into the Dioxygenase-like Reactivity of a Co <sup>III</sup> -peroxo Complex: O $\hat{\text{O}}$ Bond Cleavage via a [1,3]-Sigmatropic Rearrangement-like Mechanism. <i>Inorganic Chemistry</i> , 2020, 59, 2051-2061.	4.0	8
35	DFT Study of PNP-Mn-Catalyzed Acceptorless Dehydrogenative Coupling of Primary Alcohols with Hydrazine to Give Alkene or Azine. <i>Organometallics</i> , 2019, 38, 3590-3601.	2.3	6
36	Density Functional Theory Mechanistic Insight into the Base-Free Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling of Acid Fluoride: Concerted versus Stepwise Transmetalation. <i>Journal of Organic Chemistry</i> , 2019, 84, 13983-13991.	3.2	24

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37	The <i>ortho</i> - $\alpha$ -difluoroalkylation of Aryliodanes with Enol Silyl Ethers: Rearrangement Enabled by a Fluorine Effect. <i>Angewandte Chemie</i> , 2019, 131, 6017-6022.	2.0	15
38	The <i>ortho</i> - $\alpha$ -difluoroalkylation of Aryliodanes with Enol Silyl Ethers: Rearrangement Enabled by a Fluorine Effect. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5956-5961.	13.8	75
39	Selective [5,5]- $\sigma$ sigmatropic Rearrangement by Assembly of Aryl Sulfoxides with Allyl Nitriles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5316-5320.	13.8	47
40	Selective [5,5]- $\sigma$ sigmatropic Rearrangement by Assembly of Aryl Sulfoxides with Allyl Nitriles. <i>Angewandte Chemie</i> , 2019, 131, 5370-5374.	2.0	14
41	Gold-Catalyzed Atom-Economic Synthesis of Sulfone-Containing Pyrrolo[2,1- <i>a</i> ]isoquinolines from Diynamides: Evidence for Consecutive Sulfonyl Migration. <i>ACS Catalysis</i> , 2019, 9, 2610-2617.	11.2	49
42	A Unified Mechanism to Account for Manganese- or Ruthenium-Catalyzed Nitrile $\alpha$ -olefinations by Primary or Secondary Alcohols: A DFT Mechanistic Study. <i>Chemistry - A European Journal</i> , 2019, 25, 3939-3949.	3.3	14
43	Computational mechanistic study of Ru-catalyzed CO <sub>2</sub> reduction by pinacolborane revealing the $\sigma$ -coupling mechanism for CO <sub>2</sub> decarbonylation. <i>Dalton Transactions</i> , 2018, 47, 4804-4819.	3.3	6
44	Reductive <i>ortho</i> -C-H cyanoalkylation of aryl(heteroaryl) sulfoxides: a general approach to $\alpha$ -aryl(heteroaryl) nitriles. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1756-1762.	4.5	25
45	Viable aromatic Be <sub>n</sub> H <sub>n</sub> stars enclosing a planar hypercoordinate boron or late transition metal. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7217-7222.	2.8	21
46	Strong Preference of the Redox-Neutral Mechanism over the Redox Mechanism for the Ti <sup>IV</sup> Catalysis Involved in the Carboamination of Alkyne with Alkene and Diazene. <i>Chemistry - A European Journal</i> , 2018, 24, 7010-7025.	3.3	12
47	Palladium-Catalyzed Reductive Cross-Coupling Reaction of Aryl Chromium(0) Fischer Carbene Complexes with Aryl Iodides. <i>Organometallics</i> , 2018, 37, 1-10.	2.3	24
48	A Pseudodearomatized PN <sub>3</sub> P*Ni-H Complex as a Ligand and $\sigma$ -Nucleophilic Catalyst. <i>Journal of Organic Chemistry</i> , 2018, 83, 14969-14977.	3.2	21
49	A comparative DFT study of TBD-catalyzed reactions of amines with CO <sub>2</sub> and hydrosilane: the effect of solvent polarity on the mechanistic preference and the origins of chemoselectivities. <i>Chemical Communications</i> , 2018, 54, 10870-10873.	4.1	25
50	Selective <i>ortho</i> -C-H Cyanoalkylation of (Diacetoxyiodo)arenes through [3,3]- $\sigma$ sigmatropic Rearrangement. <i>Angewandte Chemie</i> , 2018, 130, 9216-9220.	2.0	22
51	Selective <i>ortho</i> -C-H Cyanoalkylation of (Diacetoxyiodo)arenes through [3,3]- $\sigma$ sigmatropic Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9078-9082.	13.8	47
52	A strategy for developing metal-free hydrogenation catalysts: a DFT proof-of-principle study. <i>Dalton Transactions</i> , 2018, 47, 7709-7714.	3.3	4
53	Diverse catalytic reactivity of a dearomatized PN <sub>3</sub> P-nickel hydride pincer complex towards CO <sub>2</sub> reduction. <i>Chemical Communications</i> , 2018, 54, 11395-11398.	4.1	56
54	The Origins of the Differences between Alkyne Hydroalkoxylations Catalyzed by $\delta$ -Quinolinolato- and Dipyrinato-Ligated Rh <sup>I</sup> Complexes: A DFT Mechanistic Study. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2713-2722.	2.0	7

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55	Noncovalent Molecular Heterojunction: Structure Determination and Property Characterization using Scanning Tunneling Microscopy/Spectroscopy and Theoretical Calculations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13701-13706.	3.1	6
56	Zigzag double-chain C <sub>60</sub> Be nanoribbon featuring planar pentacoordinate carbons and ribbon aromaticity. <i>Journal of Materials Chemistry C</i> , 2017, 5, 408-414.	5.5	10
57	Differences between the elimination of early and late transition metals: DFT mechanistic insights into the titanium-catalyzed synthesis of pyrroles from alkynes and diazenes. <i>Chemical Science</i> , 2017, 8, 2413-2425.	7.4	27
58	A DFT study unveils the secret of how H <sub>2</sub> is activated in the N-formylation of amines with CO <sub>2</sub> and H <sub>2</sub> catalyzed by Ru( $\eta^5$ -Cp) pincer complexes in the absence of exogenous additives. <i>Chemical Communications</i> , 2017, 53, 12148-12151.	4.1	18
59	Formylation or methylation: what determines the chemoselectivity of the reaction of amine, CO <sub>2</sub> , and hydrosilane catalyzed by 1,3,2-diazaphospholene?. <i>Chemical Science</i> , 2017, 8, 7637-7650.	7.4	28
60	Linear, planar, and tubular molecular structures constructed by double planar tetracoordinate carbon $D_{2h}$ C <sub>2</sub> (BeH) <sub>4</sub> species via hydrogen-bridged Be-H-Be bonds. <i>Journal of Computational Chemistry</i> , 2016, 37, 261-269.	3.3	14
61	Metal-free homolytic hydrogen activation: a quest through density functional theory computations. <i>New Journal of Chemistry</i> , 2016, 40, 8141-8148.	2.8	6
62	How Does an Earth-Abundant Copper-Based Catalyst Achieve Anti-Markovnikov Hydrobromination of Alkynes? A DFT Mechanistic Study. <i>Organometallics</i> , 2016, 35, 1923-1930.	2.3	16
63	Unveiling Secrets of Overcoming the "Heteroatom Problem" in Palladium-Catalyzed Aerobic C-H Functionalization of Heterocycles: A DFT Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2016, 138, 2712-2723.	13.7	65
64	Four Decades of the Chemistry of Planar Hypercoordinate Compounds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9468-9501.	13.8	217
65	Mechanistic Insight into Ketone $\alpha$ -Alkylation with Unactivated Olefins via C-H Activation Promoted by Metal-Organic Cooperative Catalysis (MOCC): Enriching the MOCC Chemistry. <i>Journal of the American Chemical Society</i> , 2015, 137, 6279-6291.	13.7	66
66	Palladium-Catalyzed C-H Functionalization of Acyldiazomethane and Tandem Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4435-4444.	13.7	94
67	DFT mechanistic study of the H <sub>2</sub> -assisted chain transfer copolymerization of propylene and <i>p</i> -methylstyrene catalyzed by zirconocene complex. <i>Journal of Polymer Science Part A</i> , 2015, 53, 576-585.	2.3	10
68	Depolymerization of Oxidized Lignin Catalyzed by Formic Acid Exploits an Unconventional Elimination Mechanism Involving 3c-4e Bonding: A DFT Mechanistic Study. <i>ACS Catalysis</i> , 2015, 5, 6386-6396.	11.2	46
69	Assessing the performance of commonly used DFT functionals in studying the chemistry of frustrated Lewis pairs. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1350074.	1.8	21
70	D <sub>3h</sub> [A-CE <sub>3</sub> -A] <sup>-</sup> (E = Al and Ga, A = Si, Ge, Sn, and Pb): A new class of hexatomic mono-anionic species with trigonal bipyramidal carbon. <i>Journal of Chemical Physics</i> , 2014, 140, 104302.	3.0	5
71	Gold catalyzed hydrogenations of small imines and nitriles: enhanced reactivity of Au surface toward H <sub>2</sub> via collaboration with a Lewis base. <i>Chemical Science</i> , 2014, 5, 1082-1090.	7.4	91
72	Computational Mechanistic Study of Fe-Catalyzed Hydrogenation of Esters to Alcohols: Improving Catalysis by Accelerating Precatalyst Activation with a Lewis Base. <i>ACS Catalysis</i> , 2014, 4, 4377-4388.	11.2	91

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73	Hydrogenation of Esters Catalyzed by Ruthenium PN <sup>3</sup> -Pincer Complexes Containing an Aminophosphine Arm. <i>Organometallics</i> , 2014, 33, 4152-4155.	2.3	74
74	Mechanism of <i>Z</i> -Selective Olefin Metathesis Catalyzed by a Ruthenium Monothiolate Carbene Complex: A DFT Study. <i>Organometallics</i> , 2014, 33, 4290-4294.	2.3	20
75	How accurate are the popular PCM/GB continuum solvation models for calculating the solvation energies of amino acid side-chain analogs?. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	14
76	A Computational Mechanistic Study of an Unprecedented Heck-Type Relay Reaction: Insight into the Origins of Regio- and Enantioselectivities. <i>Journal of the American Chemical Society</i> , 2014, 136, 986-998.	13.7	118
77	Catalytic Mechanisms of Direct Pyrrole Synthesis via Dehydrogenative Coupling Mediated by PNP-Ir or PNN-Ru Pincer Complexes: Crucial Role of Proton-Transfer Shuttles in the PNP-Ir System. <i>Journal of the American Chemical Society</i> , 2014, 136, 4974-4991.	13.7	171
78	Mechanism of the Methyltrioxorhenium-catalyzed Deoxydehydration of Polyols: A New Pathway Revealed. <i>Chemistry - A European Journal</i> , 2013, 19, 3827-3832.	3.3	71
79	Density Functional Theory Mechanistic Study of the Reduction of CO <sub>2</sub> to CH <sub>4</sub> Catalyzed by an Ammonium Hydridoborate Ion Pair: CO <sub>2</sub> Activation via Formation of a Formic Acid Entity. <i>Inorganic Chemistry</i> , 2013, 52, 12098-12107.	4.0	65
80	Mechanism and Origins of <i>Z</i> Selectivity of the Catalytic Hydroalkoxylation of Alkynes via Rhodium Vinylidene Complexes To Produce Enol Ethers. <i>Organometallics</i> , 2013, 32, 2804-2813.	2.3	26
81	Differences between insertions of ethylene into metallocene and non-metallocene ethylene polymerization catalysts. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 70-76.	1.9	4
82	Manipulation of the Reducibility of Ceria-Supported Au Catalysts by Interface Engineering. <i>ChemCatChem</i> , 2013, 5, 1308-1312.	3.7	11
83	D <sub>3h</sub> CN <sub>3</sub> Be <sup>3+</sup> and CO <sub>3</sub> Li <sup>3+</sup> : viable planar hexacoordinate carbon prototypes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14760.	2.8	59
84	Catalytic metal-free intramolecular hydroaminations of non-activated aminoalkenes: A computational exploration. <i>Dalton Transactions</i> , 2012, 41, 9091.	3.3	23
85	Computational Insight into the Mechanism of Selective Imine Formation from Alcohol and Amine Catalyzed by the Ruthenium(II)-PNP Pincer Complex. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5011-5020.	2.0	79
86	Computational Design of Metal-Free Molecules for Activation of Small Molecules, Hydrogenation, and Hydroamination. <i>Topics in Current Chemistry</i> , 2012, 332, 231-266.	4.0	8
87	Does the Ruthenium Nitrate Catalyst Work Differently in <i>Z</i> -Selective Olefin Metathesis? A DFT Study. <i>Organometallics</i> , 2012, 31, 8654-8657.	2.3	52
88	A Thorough DFT Study of the Mechanism of Homodimerization of Terminal Olefins through Metathesis with a Chelated Ruthenium Catalyst: From Initiation to <i>Z</i> Selectivity to Regeneration. <i>Organometallics</i> , 2012, 31, 7222-7234.	2.3	58
89	Computational mechanistic studies of acceptorless dehydrogenation reactions catalyzed by transition metal complexes. <i>Science China Chemistry</i> , 2012, 55, 1991-2008.	8.2	22
90	Computational Mechanistic Study of the Hydrogenation of Carbonate to Methanol Catalyzed by the Ru <sup>II</sup> -PNN Complex. <i>Inorganic Chemistry</i> , 2012, 51, 5716-5727.	4.0	77



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91	Reaction Mechanism of Phosphane-Catalyzed [4+2] Annulations between $\beta$ -Alkylallenoates and Activated Alkenes: A Computational Study. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3587-3597.	2.4	45
92	Metal-free catalysts for hydrogenation of both small and large imines: a computational experiment. <i>Dalton Transactions</i> , 2011, 40, 1929.	3.3	25
93	How Does the Nickel Pincer Complex Catalyze the Conversion of $\text{CO}_2$ to a Methanol Derivative? A Computational Mechanistic Study. <i>Inorganic Chemistry</i> , 2011, 50, 3816-3825.	4.0	159
94	Computational Study on the Catalytic Role of Pincer Ruthenium(II)-PNN Complex in Directly Synthesizing Amide from Alcohol and Amine: The Origin of Selectivity of Amide over Ester and Imine. <i>Organometallics</i> , 2011, 30, 5233-5247.	2.3	149
95	Designing Metal-Free Catalysts by Mimicking Transition-Metal Pincer Templates. <i>Chemistry - A European Journal</i> , 2011, 17, 2038-2043.	3.3	34
96	Insight into the relative reactivity of $\sigma$ -Frustrated Lewis pairs and stable carbenes in activating $\text{H}_2$ and $\text{CH}_4$ : A comparative computational study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5268.	2.8	44
97	Encumbering the intramolecular $\pi$ donation by using a bridge: A strategy for designing metal-free compounds to hydrogen activation. <i>Science Bulletin</i> , 2010, 55, 239-245.	1.7	38
98	Reversible Heterolytic Methane Activation of Metal-Free Closed-Shell Molecules: A Computational Proof-of-Principle Study. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2254-2260.	2.0	35
99	Computationally Designed Families of Flat, Tubular, and Cage Molecules Assembled with $\sigma$ -Starbenzene Building Blocks through Hydrogen-Bridge Bonds. <i>Chemistry - A European Journal</i> , 2010, 16, 1271-1280.	3.3	38
100	The Catalytic Role of N-Heterocyclic Carbene in a Metal-Free Conversion of Carbon Dioxide into Methanol: A Computational Mechanism Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 12388-12396.	13.7	235
101	Computationally Designed Metal-Free Hydrogen Activation Site: Reaching the Reactivity of Metal-Ligand Bifunctional Hydrogenation Catalysts. <i>Inorganic Chemistry</i> , 2010, 49, 295-301.	4.0	61
102	$\text{CAI}_4\text{Be}$ and $\text{CAI}_3\text{Be}_2$ : global minima with a planar pentacoordinate carbon atom. <i>Chemical Communications</i> , 2010, 46, 8776.	4.1	104
103	Catalytic metal-free ketone hydrogenation: a computational experiment. <i>Dalton Transactions</i> , 2010, 39, 5519.	3.3	38
104	Computational design of metal-free catalysts for catalytic hydrogenation of imines. <i>Dalton Transactions</i> , 2010, 39, 4038.	3.3	45
105	Planar Tetracoordinate Carbon Species Involving Beryllium Substituents. <i>Inorganic Chemistry</i> , 2008, 47, 1332-1336.	4.0	42
106	Water facilitated photolysis of perfluoroalkyl iodides <i>via</i> halogen bonding. <i>Organic Chemistry Frontiers</i> , 0, , .	4.5	6