

Xin Lu

List of Publications by Year in descending order

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193
papers

9,537
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23567

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193
docs citations

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times ranked

6862
citing authors

#	ARTICLE	IF	CITATIONS
1	Curved Pi-Conjugation, Aromaticity, and the Related Chemistry of Small Fullerenes (<C60) and Single-Walled Carbon Nanotubes. <i>Chemical Reviews</i> , 2005, 105, 3643-3696.	47.7	517
2	Capturing the Labile Fullerene[50] as C50Cl10. <i>Science</i> , 2004, 304, 699-699.	12.6	317
3	Atom-economic generation of gold carbenes: gold-catalyzed formal [3+2] cycloaddition between ynamides and isoxazoles. <i>Chemical Science</i> , 2015, 6, 1265-1271.	7.4	251
4	Generation of Î±-Imino Gold Carbenes through Gold-Catalyzed Intermolecular Reaction of Azides with Ynamides. <i>Journal of the American Chemical Society</i> , 2015, 137, 9567-9570.	13.7	245
5	Stabilization of anti-aromatic and strained five-membered rings with a transition metal. <i>Nature Chemistry</i> , 2013, 5, 698-703.	13.6	244
6	Electrochemical CâˆH/NâˆH Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9168-9172.	13.8	215
7	Electrocatalytic Generation of Amidyl Radicals for Olefin Hydroamidation: Use of Solvent Effects to Enable Anilide Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2226-2229.	13.8	214
8	Isolation and Characterization of Sc2C2@C68: A Metal-Carbide Endofullerene with a Non-IPR Carbon Cage. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2107-2111.	13.8	181
9	Planar MÃ¶bius aromatic pentalenes incorporating 16 and 18 valence electron osmiums. <i>Nature Communications</i> , 2014, 5, 3265.	12.8	169
10	Electrochemical Synthesis of Imidazoâ€Fused Nâ€Heteroaromatic Compounds through a CâˆN Bondâ€Forming Radical Cascade. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1636-1639.	13.8	155
11	Zincâ€Catalyzed Alkyne Oxidation/Ci€H Functionalization: Highly Siteâ€Selective Synthesis of Versatile Isoquinolones and Î²â€Carbolines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8245-8249.	13.8	154
12	Open-Shell Singlet Character of Cyclacenes and Short Zigzag Nanotubes. <i>Organic Letters</i> , 2007, 9, 5449-5452.	4.6	147
13	Planar Quinary Cluster inside a Fullerene Cage: Synthesis and Structural Characterizations of Sc₃NC@C₈₀-<i>I</i> _{<i>h</i>}. <i>Journal of the American Chemical Society</i> , 2010, 132, 16362-16364.	13.7	147
14	Highly Site Selective Formal [5+2] and [4+2] Annulations of Isoxazoles with Heterosubstituted Alkynes by Platinum Catalysis: Rapid Access to Functionalized 1,3â€Oxazepines and 2,5â€Dihydropyridines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 605-609.	13.8	146
15	Theoretical Predictions of ³¹P NMR Chemical Shift Threshold of Trimethylphosphine Oxide Absorbed on Solid Acid Catalysts. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4496-4505.	2.6	143
16	Divergent synthesis of N-heterocycles via controllable cyclization of azido-diyne catalyzed by copper and gold. <i>Nature Communications</i> , 2017, 8, 1748.	12.8	139
17	Are StoneâˆWales Defect Sites Always More Reactive Than Perfect Sites in the Sidewalls of Single-Wall Carbon Nanotubes?. <i>Journal of the American Chemical Society</i> , 2005, 127, 20-21.	13.7	135
18	Mechanisms of Methane Activation and Transformation on Molybdenum Oxide Based Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 3989-3996.	13.7	134

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19	Properties of Fullerene[50] and D5h-Decachlorofullerene[50]: A Computational Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 14871-14878.	13.7	133
20	A Theoretical Exploration of the 1,3-Dipolar Cycloadditions onto the Sidewalls of (n,n) Armchair Single-Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10459-10464.	13.7	119
21	Russian-Doll-Type Metal Carbide Endofullerene: Synthesis, Isolation, and Characterization of Sc ₄ C ₂ @C ₈₀ . <i>Journal of the American Chemical Society</i> , 2009, 131, 16646-16647.	13.7	118
22	Crystal Structures of Saturn-Like C ₅₀ C ₁₀ and Pineapple-Shaped C ₆₄ C ₄ : Geometric Implications of Double- and Triple-Pentagon-Fused Chlorofullerenes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5340-5343.	13.8	116
23	Reactions of some [C, N, O]-containing molecules with Si surfaces: Experimental and theoretical studies. <i>International Reviews in Physical Chemistry</i> , 2002, 21, 137-184.	2.3	114
24	Two Ih-symmetry-breaking C ₆₀ isomers stabilized by chlorination. <i>Nature Materials</i> , 2008, 7, 790-794.	27.5	114
25	Chlorofullerenes featuring triple sequentially fused pentagons. <i>Nature Chemistry</i> , 2010, 2, 269-273.	13.6	107
26	Gold-Catalyzed Intermolecular Ynamide Amination-Initiated Aza-Nazarov Cyclization: Access to Functionalized 2-Aminopyrroles. <i>Organic Letters</i> , 2016, 18, 3254-3257.	4.6	97
27	Dimetalloendofullerene U ₂ @C ₆₀ Has a U ⁺ U Multiple Bond Consisting of Sixfold One-Electron-Two-Center Bonds. <i>Journal of the American Chemical Society</i> , 2007, 129, 2171-2177.	13.7	95
28	Can the Sidewalls of Single-Wall Carbon Nanotubes Be Ozonized?. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2136-2139.	2.6	94
29	Reversal of Regioselectivity in Catalytic Arene-Ynamide Cyclization: Direct Synthesis of Valuable Azepino[4,5- <i>b</i>]indoles and 1 ² -Carbolines and DFT Calculations. <i>ACS Catalysis</i> , 2017, 7, 4004-4010.	11.2	92
30	Dual catalysis for enantioselective convergent synthesis of enantiopure vicinal amino alcohols. <i>Nature Communications</i> , 2018, 9, 410.	12.8	92
31	C ₆₄ H ₄ : Production, Isolation, and Structural Characterizations of a Stable Unconventional Fulleride. <i>Journal of the American Chemical Society</i> , 2006, 128, 6605-6610.	13.7	90
32	Assembled molecular face-rotating polyhedra to transfer chirality from two to three dimensions. <i>Nature Communications</i> , 2016, 7, 12469.	12.8	90
33	Conjugated Microporous Polymer as Heterogeneous Ligand for Highly Selective Oxidative Heck Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 3966-3969.	13.7	86
34	Generation of Donor/Donor Copper Carbenes through Copper-Catalyzed Diyne Cyclization: Enantioselective and Divergent Synthesis of Chiral Polycyclic Pyrroles. <i>Journal of the American Chemical Society</i> , 2019, 141, 16961-16970.	13.7	84
35	Chemisorption and Decomposition of Thiophene and Furan on the Si(100)-2 × 1 Surface: A Quantum Chemical Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10069-10075.	2.6	83
36	Organic Functionalization of the Sidewalls of Carbon Nanotubes by Diels-Alder Reactions: A Theoretical Prediction. <i>Organic Letters</i> , 2002, 4, 4313-4315.	4.6	83

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37	Copper-Catalyzed Asymmetric Reaction of Alkenyl Diynes with Styrenes by Formal [3 + 2] Cycloaddition via Cu-Containing All-Carbon 1,3-Dipoles: Access to Chiral Pyrrole-Fused Bridged [2.2.1] Skeletons. <i>Journal of the American Chemical Society</i> , 2020, 142, 7618-7626.	13.7	83
38	Adsorption of methanol, formaldehyde and formic acid on the Si(100)-2Å ⁻¹ surface: A computational study. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2156-2161.	2.8	81
39	Comparative Spectroscopic and Reactivity Studies of Sc ₃ Y _x N@C ₈₀ (x = 0-3). <i>Journal of Physical Chemistry C</i> , 2007, 111, 11823-11828.	3.1	81
40	Size Effect of Encaged Clusters on the Exohedral Chemistry of Endohedral Fullerenes: A Case Study on the Pyrrolidino Reaction of Sc _x Gd _{3-x} N@C ₈₀ (x = 0-3). <i>Organic Letters</i> , 2007, 9, 2011-2013.	4.6	80
41	CCCCC pentadentate chelates with planar M ⁺ aromaticity and unique properties. <i>Science Advances</i> , 2016, 2, e1601031.	10.3	74
42	Organocatalytic Enantioselective Conia ⁺ Carbocyclization of Ynamide Cyclohexanones: Regiodivergent Synthesis of Morphans and Normorphans. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16252-16259.	13.8	72
43	Gold-Catalyzed [5+2]- and [5+1]-Annulations between Ynamides and 1,2-Benzisoxazoles with Ligand-Controlled Chemoselectivity. <i>ACS Catalysis</i> , 2018, 8, 9697-9701.	11.2	71
44	On the absence of a phonon bottleneck in strongly confined CsPbBr ₃ perovskite nanocrystals. <i>Chemical Science</i> , 2019, 10, 5983-5989.	7.4	71
45	An Entrant of Smaller Fullerene: C ₅₆ Captured by Chlorines and Aligned in Linear Chains. <i>Journal of the American Chemical Society</i> , 2008, 130, 15240-15241.	13.7	69
46	Carbon arc production of heptagon-containing fullerene [68]. <i>Nature Communications</i> , 2011, 2, 420.	12.8	69
47	Distributed phase birefringence measurements based on polarization correlation in phase-sensitive optical time-domain reflectometers. <i>Optics Express</i> , 2015, 23, 24923.	3.4	69
48	Ti ₂ C ₈₀ is more likely a titanium carbide endohedral metallofullerene (Ti ₂ C ₂)@C ₇₈ . <i>Chemical Communications</i> , 2005, , 4444.	4.1	68
49	Catalytic Ynamide Oxidation Strategy for the Preparation of \pm -Functionalized Amides. <i>ACS Catalysis</i> , 2016, 6, 6055-6062.	11.2	68
50	Diradical Mechanism for the [2 + 2] Cycloaddition of Ethylene on Si(100) Surface. <i>Journal of the American Chemical Society</i> , 2003, 125, 6384-6385.	13.7	66
51	Temperature-strain discrimination in distributed optical fiber sensing using phase-sensitive optical time-domain reflectometry. <i>Optics Express</i> , 2017, 25, 16059.	3.4	66
52	Spin Divergence Induced by Exohedral Modification: ESR Study of Sc ₃ C ₂ @C ₈₀ Fulleropyrrolidine. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1786-1789.	13.8	65
53	Mechanisms of Initial Propane Activation on Molybdenum Oxides: A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6416-6421.	2.6	63
54	Biexciton Auger recombination in mono-dispersed, quantum-confined CsPbBr ₃ perovskite nanocrystals obeys universal volume-scaling. <i>Nano Research</i> , 2019, 12, 619-623.	10.4	63

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55	Size- and Halide-Dependent Auger Recombination in Lead Halide Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14292-14295.	13.8	63
56	Electronic Structure and Redox Properties of the Open-Shell Metal-Carbide Endofullerene Sc ₃ C ₂ @C ₈₀ : A Density Functional Theory Investigation. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1171-1176.	2.5	62
57	Diradical Mechanisms for the Cycloaddition Reactions of 1,3-Butadiene, Benzene, Thiophene, Ethylene, and Acetylene on a Si(111)-7 \times 7 Surface. <i>Journal of the American Chemical Society</i> , 2003, 125, 7923-7929.	13.7	61
58	Sponge-like quaternary ammonium-based poly(ionic liquid)s for high CO ₂ capture and efficient cycloaddition under mild conditions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25594-25600.	10.3	60
59	Is C ₆₀ buckminsterfullerene aromatic?. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14886.	2.8	58
60	La ₂ C ₇₂ and Sc ₂ C ₇₂ : Computational Characterizations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2231-2234.	2.5	57
61	Cluster modeling of metal oxides: how to cut out a cluster?. <i>Chemical Physics Letters</i> , 1998, 291, 445-452.	2.6	54
62	The [2+1] Cycloadditions of Dichlorocarbene, Silylene, Germylene, and Oxycarbonylnitrene onto the Sidewall of Armchair (5,5) Single-Wall Carbon Nanotube. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8388-8391.	2.6	54
63	Copper-Catalyzed Intramolecular Oxidative Amination of Unactivated Internal Alkenes. <i>Chemistry - A European Journal</i> , 2016, 22, 4379-4383.	3.3	52
64	Intermolecular 1,2-Difunctionalization of Alkenes Enabled by Fluoroamide-Directed Remote Benzyl C(sp ³) ³ -H Functionalization. <i>Journal of the American Chemical Society</i> , 2022, 144, 339-348.	13.7	51
65	Unprecedented 1/4-C ₂₆ -Anion in Sc ₄ C ₂ @C ₈₀ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 11098-11102.	2.6	48
66	A Review of Methods for Fibre-Optic Distributed Chemical Sensing. <i>Sensors</i> , 2019, 19, 2876.	3.8	48
67	Size- and Composition-Dependent Exciton Spin Relaxation in Lead Halide Perovskite Quantum Dots. <i>ACS Energy Letters</i> , 2020, 5, 1701-1708.	17.4	47
68	Generation of Endocyclic Vinyl Carbene Complexes via Gold-Catalyzed Oxidative Cyclization of Terminal Dienes: Toward Naphthoquinones and Carbazolequinones. <i>ACS Catalysis</i> , 2019, 9, 1019-1025.	11.2	46
69	Benign catalysis with zinc: atom-economical and divergent synthesis of nitrogen heterocycles by formal [3 + 2] annulation of isoxazoles with ynol ethers. <i>Green Chemistry</i> , 2018, 20, 4287-4291.	9.0	45
70	Synthesis and Characterization of a Metallacyclic Framework with Three Fused Five-Membered Rings. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9067-9071.	13.8	45
71	Chemisorption of acetonitrile, pyridine and pyrazine on the Si(100)-2 \times 1 surface: theoretical predictions. <i>New Journal of Chemistry</i> , 2002, 26, 160-164.	2.8	41
72	Copper-catalyzed asymmetric cyclization of alkenyl diynes: method development and new mechanistic insights. <i>Chemical Science</i> , 2021, 12, 9466-9474.	7.4	41

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73	Sidewall Oxidation and Complexation of Carbon Nanotubes by Base-Catalyzed Cycloaddition of Transition Metal Oxide: A Theoretical Prediction. <i>Nano Letters</i> , 2002, 2, 1325-1327.	9.1	40
74	Determination of sophoridine and related lupin alkaloids using tris(2,2'-bipyridine)ruthenium electrogenerated chemiluminescence. <i>Analytica Chimica Acta</i> , 2002, 466, 79-86.	5.4	39
75	Practical, Modular, and General Synthesis of Coumaranones through Gold-Catalyzed Intermolecular Alkyne Oxidation Strategy. <i>Chemistry - an Asian Journal</i> , 2015, 10, 91-95.	3.3	39
76	Synthesis and Spectroscopy of Monodispersed, Quantum-Confined FAPbBr ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 549-556.	6.7	39
77	Bonding of NO ₂ to the Au Atom and Au(111) Surface: A Quantum Chemical Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10969-10974.	2.5	38
78	Pentagon-Fused Hollow Fullerene in C ₇₈ Family Retrieved by Chlorination. <i>Journal of the American Chemical Society</i> , 2010, 132, 12648-12652.	13.7	37
79	Control of the Charge Distribution and Modulation of the Class II-III Transition in Weakly Coupled Mo ₂ -Mo ₂ Systems. <i>Inorganic Chemistry</i> , 2013, 52, 12624-12633.	4.0	37
80	Dissociation mechanism of methanol on a Si(111)-(7 \times 7) surface studied by scanning tunneling microscopy. <i>Physical Review B</i> , 2002, 66, .	3.2	36
81	Synthesis of a Dy@C ₈₂ Derivative Bearing a Single Phosphorus Substituent via a Zwitterion Approach. <i>Journal of the American Chemical Society</i> , 2007, 129, 10636-10637.	13.7	36
82	Homoconjugation/Homoaromaticity in Main Group Inorganic Molecules. <i>Journal of the American Chemical Society</i> , 2009, 131, 9789-9799.	13.7	36
83	NC unit trapped by fullerenes: a density functional theory study on Sc ₃ NC@C _{2n} (2n = 68, 78 and 80). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12442.	2.8	35
84	Synthesis of 2-Aza-1,3-butadienes through Gold-Catalyzed Intermolecular Ynamide Amination/C-H Functionalization. <i>Organic Letters</i> , 2016, 18, 4630-4633.	4.6	35
85	N ₂ O Decomposition on MgO and Li/MgO Catalysts: A Quantum Chemical Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3373-3379.	2.6	34
86	Backbone modification promotes peroxidase activity of G-quadruplex-based DNAzyme. <i>Chemical Communications</i> , 2012, 48, 8347.	4.1	34
87	Transition-metal-free oxidative cyclization of N-propargyl ynamides: stereospecific construction of linear polycyclic N-heterocycles. <i>Green Chemistry</i> , 2018, 20, 3271-3278.	9.0	33
88	Simple Combustion Production and Characterization of Octahydro[60]fullerene with a Non-IPR C ₆₀ Cage. <i>Journal of the American Chemical Society</i> , 2010, 132, 15093-15095.	13.7	32
89	Formation, Location, and Photocatalytic Reactivity of Methoxy Species on Keggin 12-H ₃ PW ₁₂ O ₄₀ : A Joint Solid-State NMR Spectroscopy and DFT Calculation Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15765-15770.	3.1	31
90	Impact of the Fiber Coating on the Temperature Response of Distributed Optical Fiber Sensors at Cryogenic Ranges. <i>Journal of Lightwave Technology</i> , 2018, 36, 961-967.	4.6	31

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91	Mechanism for the Regioselective Asymmetric Addition of Grignard Reagents to Malimides: A Computational Exploration. Journal of Organic Chemistry, 2007, 72, 35-42.	3.2	30
92	Hydroboration of C(100) Surface, Fullerene, and the Sidewalls of Single-Wall Carbon Nanotubes with Borane. Journal of Organic Chemistry, 2003, 68, 4495-4498.	3.2	29
93	Brønsted and Lewis Acidity of the BF ₃ -Al ₂ O ₃ Alkylation Catalyst as Revealed by Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculations. Journal of Physical Chemistry B, 2005, 109, 13124-13131.	2.6	29
94	High LUMO energy level C ₆₀ (OCH ₃) ₄ derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. Solar Energy Materials and Solar Cells, 2013, 111, 193-199.	6.2	29
95	Prediction of the ¹³ C NMR chemical shifts of organic species adsorbed on H-ZSM-5 zeolite by the ONIOM-GIAO method. Chemical Communications, 2005, , 2474.	4.1	28
96	Zinc-catalyzed reaction of isoxazoles with thioynol ethers involving an unprecedented 1,2-sulfur migration. Chemical Communications, 2018, 54, 7435-7438.	4.1	28
97	Adsorption, Isomerization, and Decomposition of HCN on Si(100) ₂ × 1: A Computational Study with a Double-Dimer Cluster Model. Journal of Physical Chemistry B, 2001, 105, 4368-4373.	2.6	27
98	Bonding configurations of acetylene adsorbed on the Si(100)-2 × 1 surface predicted by density functional cluster model calculations. Physical Chemistry Chemical Physics, 2000, 2, 4213-4217.	2.8	26
99	Diradical Mechanisms for the Cycloaddition Chemistry of Ethylene on X(100) Surfaces (X = C, Si, and Tj ETQq1 1 0,784314 rgBT /Ove	2.6	26
100	Pristine graphene dispersion in solvents and its application as a catalyst support: a combined theoretical and experimental study. Journal of Materials Chemistry A, 2015, 3, 6282-6285.	10.3	26
101	Sidewall Epoxidation of Single-Walled Carbon Nanotubes: A Theoretical Prediction. Organic Letters, 2003, 5, 3527-3530.	4.6	25
102	Addition of Carbene to the Equator of C ₇₀ To Produce the Most Stable C ₇₁ H ₂ Isomer: A Computational Study. Angewandte Chemie - International Edition, 2010, 49, 962-966.	13.8	25
103	Gas-Phase Reactions of HONO with HNO and NH ₃ : An Ab Initio MO/TST Study. Journal of Physical Chemistry A, 2000, 104, 5141-5148.	2.5	24
104	Beyond the intradimer [2 + 2] cycloaddition chemistry of ethylene on Si(1 0 0): theoretical evidence on the occurrence of interdimer reaction. Chemical Physics Letters, 2004, 393, 124-127.	2.6	24
105	Producing Reactive Species on Si(100), Ge(100), and Si(111) Surfaces by Attachments of Diacetylenes. Journal of Physical Chemistry B, 2004, 108, 4478-4484.	2.6	24
106	Photocatalytic Decarboxylative [3 + 2] and [4 + 2] Annulation of Enynals and ^{1,3} -Unsaturated ^{1,3} -(Acyloxy)phthalimides by NaI/PPH ₃ Catalysis. Organic Letters, 2021, 23, 7839-7844.	4.6	24
107	Gas Phase Reactions of HONO with NO ₂ , O ₃ , and HCl: An Ab Initio and TST Study. Journal of Physical Chemistry A, 2000, 104, 8730-8738.	2.5	23
108	A DFT Study of the 1,3-Dipolar Cycloadditions on the C(100)-2 × 1 Surface. Journal of Organic Chemistry, 2002, 67, 515-520.	3.2	23

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109	Adsorption and Decomposition of NO on Magnesium Oxide: A Quantum Chemical Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5657-5664.	2.6	22
110	High charge flexibility of the surface dangling bonds on the Si(111)-7 \times 7 surface and NH ₃ chemisorption: a DFT study. <i>Chemical Physics Letters</i> , 2002, 355, 365-370.	2.6	22
111	Can the Nitroso Ene Reaction Proceed Concertedly?. <i>Organic Letters</i> , 2004, 6, 2813-2815.	4.6	22
112	Exohedrally stabilized C ₇₀ isomer with adjacent pentagons characterized by crystallography. <i>Chemical Science</i> , 2013, 4, 2967.	7.4	22
113	Experimental and Theoretical Evidence of Aromatic Behavior in Heterobenzene-Like Molecules with Metal-Metal Multiple Bonds. <i>Chemistry - A European Journal</i> , 2011, 17, 10288-10296.	3.3	21
114	Strong Spin-Selective Optical Stark Effect in Lead Halide Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3594-3600.	4.6	21
115	Atroposelective carbonylation of aryl iodides with amides: facile synthesis of enantioenriched cyclic and acyclic amides. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6067-6073.	4.5	20
116	A quantum chemical study of the NO/MgO chemisorption system: hybrid B3LYP calculations on NO/(MgO) (n=4,6,8) model systems. <i>Chemical Physics Letters</i> , 1999, 300, 109-117.	2.6	19
117	Spectral Properties of the Signal in Phase-Sensitive Optical Time-Domain Reflectometry With Direct Detection. <i>Journal of Lightwave Technology</i> , 2020, 38, 1513-1521.	4.6	18
118	A theoretical study of HN ₃ reaction with the C(1 0 0)-2 \times 1 surface. <i>Chemical Physics Letters</i> , 2001, 343, 212-218.	2.6	17
119	Theoretical studies of XC _n X (X=O, S, Se; n=1-8): structures, spectroscopic properties, and dissociation energies. <i>Computational and Theoretical Chemistry</i> , 2002, 593, 187-197.	1.5	17
120	High Activity of Amine-Doped H-ZSM-5 Zeolite in Ethene Protonation: Revealed by Embedding Calculations. <i>ChemPhysChem</i> , 2007, 8, 231-234.	2.1	17
121	Gain Spectrum Engineering in Distributed Brillouin Fiber Sensors. <i>Journal of Lightwave Technology</i> , 2019, 37, 5231-5237.	4.6	17
122	Numerical Modeling of Fcy OTDR Sensing Using a Refractive Index Perturbation Approach. <i>Journal of Lightwave Technology</i> , 2020, 38, 974-980.	4.6	17
123	Functionalization of the C(100) 2 \times 1 Surface by 1,3-Dipolar Cycloadditions: A Theoretical Prediction. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5972-5974.	2.6	16
124	Synthesis, Properties, and Bishomoaromaticity of the First Tetrahalogenated Derivative of a 1,5-Diphosphadithiatetrazocine: A Combined Experimental and Computational Investigation. <i>Inorganic Chemistry</i> , 2010, 49, 3810-3815.	4.0	16
125	CASSCF study of bonding in NiCO and FeCO. <i>International Journal of Quantum Chemistry</i> , 1999, 72, 221-231.	2.0	15
126	The chemisorption of NO on Si(111)-7 \times 7 surface: a DFT study. <i>Chemical Physics Letters</i> , 2003, 375, 106-112.	2.6	15

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127	Combustion Synthesis and Electrochemical Properties of the Small Hydrofullerene $C_{50}H_{10}$. Chemistry - A European Journal, 2012, 18, 3408-3415.	3.3	15
128	Sulfur Moiety as a Double-Edged Sword for Realizing Ultrafine Supported Metal Nanoclusters with a Cationic Nature. ACS Applied Materials & Interfaces, 2019, 11, 11317-11326.	8.0	15
129	Evaluating Phase Errors in Phase-Sensitive Optical Time-Domain Reflectometry based on I/Q Demodulation. Journal of Lightwave Technology, 2020, , 1-1.	4.6	15
130	Phase error analysis and unwrapping error suppression in phase-sensitive optical time domain reflectometry. Optics Express, 2022, 30, 6934.	3.4	15
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