

# Qiang Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

629  
citations

516710

16  
h-index

580821

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon coated cobalt catalysts for direct synthesis of middle n-alkanes from syngas. <i>Fuel</i> , 2022, 327, 124889.	6.4	3
2	Theoretically Predicted CO Adsorption and Dissociation on Ru-doped Co(100) Surfaces. <i>Applied Surface Science</i> , 2021, 572, 151476.	6.1	1
3	Equilibrium morphology evolution of FCC cobalt nanoparticle under CO and hydrogen environments. <i>Applied Surface Science</i> , 2020, 504, 144469.	6.1	9
4	Theoretically predicted surface morphology of FCC cobalt nanoparticles induced by Ru promoter. <i>Catalysis Science and Technology</i> , 2020, 10, 187-195.	4.1	9
5	Morphology Evolution of Hcp Cobalt Nanoparticles Induced by Ru Promoter. <i>ChemCatChem</i> , 2020, 12, 2083-2090.	3.7	7
6	Rediscovering Tuning Product Selectivity by an Energy Descriptor: CH <sub>4</sub> Formation and C <sub>1</sub> -C <sub>1</sub> Coupling on the FCC Co Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11040-11049.	3.1	9
7	Morphology evolution of fcc Ru nanoparticles under hydrogen atmosphere. <i>Nanoscale</i> , 2019, 11, 8037-8046.	5.6	18
8	Infrared photodissociation spectroscopic investigation of TMO(CO) <sub>n</sub> (TM = Sc, Y, La): testing the 18-electron rule. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6743-6749.	2.8	9
9	Combining covalent bonding and electrostatic attraction to achieve highly viable species with ultrashort beryllium-beryllium distances: a computational design. <i>Dalton Transactions</i> , 2018, 47, 4707-4713.	3.3	16
10	CB <sub>3</sub> E <sub>2</sub> <sup>q</sup> (q = ±1): a family of cyclohyparene analogues with a planar pentacoordinate carbon. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12642-12649.	2.8	11
11	Insight into the structure and morphology of Ru <sub>n</sub> clusters on Co(111) and Co(311) surfaces. <i>Catalysis Science and Technology</i> , 2018, 8, 2728-2739.	4.1	7
12	Synergistic Inhibitory Effect of QDs-Trimiprosate Covalent Binding on Amyloid Aggregation. <i>ACS Chemical Neuroscience</i> , 2018, 9, 817-823.	3.5	40
13	Micropore blocked core-shell ZSM-22 designed via epitaxial growth with enhanced shape selectivity and high n-dodecane hydroisomerization performance. <i>Catalysis Science and Technology</i> , 2018, 8, 6407-6419.	4.1	23
14	Stabilization of beryllium-containing planar pentacoordinate carbon species through attaching hydrogen atoms. <i>RSC Advances</i> , 2018, 8, 36521-36526.	3.6	20
15	M-S Multiple Bond in HMSH, H <sub>2</sub> MS, and HMS Molecules (M = B, Al, Ga): Matrix Infrared Spectra and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8626-8635.	2.5	3
16	Crystal-Plane-Dependent Fischer-Tropsch Performance of Cobalt Catalysts. <i>ACS Catalysis</i> , 2018, 8, 9447-9455.	11.2	61
17	OMS, OM(̂-2-SO), and OM(̂-2-SO)(̂-2-O <sub>2</sub> S) Molecules (M = Ce, Th) with Chiral Structure: Matrix Infrared Spectra and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5391-5400.	2.5	3
18	Design and synthesis of Pt/ZSM-22 catalysts for selective formation of iso-Dodecane with branched chain at more central positions from n-Dodecane hydroisomerization. <i>Applied Catalysis A: General</i> , 2018, 562, 310-320.	4.3	28

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19	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
20	High selectivity for n-dodecane hydroisomerization over highly siliceous ZSM-22 with low Pt loading. <i>Catalysis Science and Technology</i> , 2017, 7, 5055-5068.	4.1	42
21	Elucidating the nature and role of copper species in catalytic carbonylation of methanol to methyl acetate over copper/titania-silica mixed oxides. <i>Catalysis Science and Technology</i> , 2017, 7, 3511-3523.	4.1	13
22	Insight into the preferred formation mechanism of long-chain hydrocarbons in Fischer-Tropsch synthesis on Hcp Co(10 $\bar{1}1$ ) surfaces from DFT and microkinetic modeling. <i>Catalysis Science and Technology</i> , 2017, 7, 3758-3776.	4.1	39
23	Formation of C <sub>2</sub> oxygenates and ethanol from syngas on an Fe-decorated Cu-based catalyst: insight into the role of Fe as a promoter. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30883-30894.	2.8	21
24	Mechanistic Insight into the C <sub>2</sub> Hydrocarbons Formation from Syngas on fcc-Co(111) Surface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9132-9147.	3.1	53
25	Insight into CH <sub>x</sub> formation in Fischer-Tropsch synthesis on the hexahedron Co catalyst: Effect of surface structure on the preferential mechanism and existence form. <i>Applied Catalysis A: General</i> , 2016, 525, 76-84.	4.3	18
26	Insight into the mechanism about the initiation, growth and termination of the C chain in syngas conversion on the Co(0001) surface: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27272-27283.	2.8	30
27	The adsorption and dissociation of methane on cobalt surfaces: thermochemistry and reaction barriers. <i>RSC Advances</i> , 2014, 4, 43004-43011.	3.6	25
28	Infrared Spectra of NgBeS (Ng = Ne, Ar, Kr, Xe) and BeS <sub>2</sub> in Noble-Gas Matrices. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1508-1513.	2.5	56
29	Spontaneous sulfur dioxide activation by Group V metal (V, Nb, Ta) atoms in excess argon at cryogenic temperatures. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9823.	2.8	14
30	Cyclic Pb(SO <sub>2</sub> ), Pb(SO <sub>2</sub> ) <sub>2</sub> and Pb <sub>2</sub> (SO <sub>2</sub> ) molecules: Matrix infrared spectra and DFT calculations. <i>Chemical Physics Letters</i> , 2013, 574, 18-23.	2.6	6
31	OMS, OM( $\hat{\Gamma}$ <sup>2</sup> -SO), and OM( $\hat{\Gamma}$ <sup>2</sup> -SO)( $\hat{\Gamma}$ <sup>2</sup> -SO <sub>2</sub> ) Molecules (M =) Tj ETQq1 1 0.78431 7415-7424.	4.0	25