

Qiang Wang

List of Publications by Year in descending order

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papers

629
citations

516710

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31
all docs

31
docs citations

31
times ranked

740
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal-Plane-Dependent Fischer-Tropsch Performance of Cobalt Catalysts. ACS Catalysis, 2018, 8, 9447-9455.	11.2	61
2	Infrared Spectra of NgBeS (Ng = Ne, Ar, Kr, Xe) and BeS ₂ in Noble-Gas Matrices. Journal of Physical Chemistry A, 2013, 117, 1508-1513.	2.5	56
3	Mechanistic Insight into the C ₂ Hydrocarbons Formation from Syngas on fcc-Co(111) Surface: A DFT Study. Journal of Physical Chemistry C, 2016, 120, 9132-9147.	3.1	53
4	High selectivity for n-dodecane hydroisomerization over highly siliceous ZSM-22 with low Pt loading. Catalysis Science and Technology, 2017, 7, 5055-5068.	4.1	42
5	Synergistic Inhibitory Effect of GQDs-Tramiprosate Covalent Binding on Amyloid Aggregation. ACS Chemical Neuroscience, 2018, 9, 817-823.	3.5	40
6	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. Catalysis Science and Technology, 2017, 7, 3758-3776.	4.1	39
7	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. Physical Chemistry Chemical Physics, 2016, 18, 27272-27283.	2.8	30
8	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. Applied Catalysis A: General, 2018, 562, 310-320.	4.3	28
9	OMS, OM($\bar{1}^{2}$ -SO), and OM($\bar{1}^{2}$ -SO)($\bar{1}^{2}$ -SO ₂) Molecules (M =) Tj ETQq1 1 0.78431 7415-7424.	4.0	25
10	The adsorption and dissociation of methane on cobalt surfaces: thermochemistry and reaction barriers. RSC Advances, 2014, 4, 43004-43011.	3.6	25
11	Micropore blocked core-shell ZSM-22 designed via epitaxial growth with enhanced shape selectivity and high n-dodecane hydroisomerization performance. Catalysis Science and Technology, 2018, 8, 6407-6419.	4.1	23
12	Formation of C ₂ oxygenates and ethanol from syngas on an Fe-decorated Cu-based catalyst: insight into the role of Fe as a promoter. Physical Chemistry Chemical Physics, 2017, 19, 30883-30894.	2.8	21
13	Stabilization of beryllium-containing planar pentacoordinate carbon species through attaching hydrogen atoms. RSC Advances, 2018, 8, 36521-36526.	3.6	20
14	Insight into CH _x formation in Fischer-Tropsch synthesis on the hexahedron Co catalyst: Effect of surface structure on the preferential mechanism and existence form. Applied Catalysis A: General, 2016, 525, 76-84.	4.3	18
15	Morphology evolution of fcc Ru nanoparticles under hydrogen atmosphere. Nanoscale, 2019, 11, 8037-8046.	5.6	18
16	Combining covalent bonding and electrostatic attraction to achieve highly viable species with ultrashort beryllium-beryllium distances: a computational design. Dalton Transactions, 2018, 47, 4707-4713.	3.3	16
17	Spontaneous sulfur dioxide activation by Group V metal (V, Nb, Ta) atoms in excess argon at cryogenic temperatures. Physical Chemistry Chemical Physics, 2013, 15, 9823.	2.8	14
18	Elucidating the nature and role of copper species in catalytic carbonylation of methanol to methyl acetate over copper/titania-silica mixed oxides. Catalysis Science and Technology, 2017, 7, 3511-3523.	4.1	13

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19	CB ₃ E ₂ ^q (q = ±1): a family of hyparene analogues with a planar pentacoordinate carbon. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12642-12649.	2.8	11
20	Zigzag double-chain Be nanoribbon featuring planar pentacoordinate carbons and ribbon aromaticity. <i>Journal of Materials Chemistry C</i> , 2017, 5, 408-414.	5.5	10
21	Infrared photodissociation spectroscopic investigation of TMO(CO) _n ⁺ (TM = Sc, Y, La): testing the 18-electron rule. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6743-6749.	2.8	9
22	Equilibrium morphology evolution of FCC cobalt nanoparticle under CO and hydrogen environments. <i>Applied Surface Science</i> , 2020, 504, 144469.	6.1	9
23	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
24	Rediscovering Tuning Product Selectivity by an Energy Descriptor: CH ₄ Formation and C ₁ -C ₁ Coupling on the FCC Co Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11040-11049.	3.1	9
25	Insight into the structure and morphology of Ru clusters on Co(111) and Co(311) surfaces. <i>Catalysis Science and Technology</i> , 2018, 8, 2728-2739.	4.1	7
26	Morphology Evolution of Hcp Cobalt Nanoparticles Induced by Ru Promoter. <i>ChemCatChem</i> , 2020, 12, 2083-2090.	3.7	7
27	Cyclic Pb(SO ₂), Pb(SO ₂) ₂ and Pb ₂ (SO ₂) molecules: Matrix infrared spectra and DFT calculations. <i>Chemical Physics Letters</i> , 2013, 574, 18-23.	2.6	6
28	M-S Multiple Bond in HMSH, H ₂ 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
29	OMS, OM(̂-2-SO), and OM(̂-2-SO)(̂-2-O ₂ 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
30	Carbon coated cobalt catalysts for direct synthesis of middle n-alkanes from syngas. <i>Fuel</i> , 2022, 327, 124889.	6.4	3
31	Theoretically Predicted CO Adsorption and Dissociation on Ru-doped Co(100) Surfaces. <i>Applied Surface Science</i> , 2021, 572, 151476.	6.1	1