Enrique Iglesia

List of Publications by Year
in descending order

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Version: 2024-02-01

317 papers	33,689 citations	1980 101 h-index	4628 170 g-index
334 all docs	334 docs citations	334 times ranked	17035 citing authors

#	Article	IF	Citations
1	The Fischer-Tropsch synthesis: A few enduring mechanistic conundrums revisited. Journal of Catalysis, 2022, 405, 614-625.	3.1	7
2	Binding and Exchange Reactions of Hydrogen Isotopes on Surfaces of Dispersed Pt Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 3923-3938.	1.5	3
3	Synthesis, characterization, and function of Au nanoparticles within TS-1 zeotypes as catalysts for alkene epoxidation using O2/H2O reactants. Journal of Catalysis, 2022, 410, 206-220.	3.1	12
4	Consequences of Intrapore Liquids on Reactivity, Selectivity, and Stability for Aldol Condensation Reactions on Anatase TiO₂ Catalysts. ChemCatChem, 2022, 14, .	1.8	4
5	Hydrogenation and C S bond activation pathways in thiophene and tetrahydrothiophene reactions on sulfur-passivated surfaces of Ru, Pt, and Re nanoparticles. Applied Catalysis B: Environmental, 2021, 291, 119797.	10.8	9
6	Mechanistic Connections between CO₂ and CO Hydrogenation on Dispersed Ruthenium Nanoparticles. Journal of the American Chemical Society, 2021, 143, 11582-11594.	6.6	35
7	Unimolecular and bimolecular formic acid decomposition routes on dispersed Cu nanoparticles. Journal of Catalysis, 2021, 404, 814-831.	3.1	5
8	Formic Acid Dehydration Rates and Elementary Steps on Lewis Acidâ€"Base Site Pairs at Anatase and Rutile TiO₂ Surfaces. Journal of Physical Chemistry C, 2020, 124, 20161-20174.	1.5	13
9	Dynamics and Mechanism of Carbon Filament Formation during Methane Reforming on Supported Nickel Clusters. Journal of Physical Chemistry C, 2020, 124, 20143-20160.	1.5	8
10	Parallel Alkane Dehydrogenation Routes on BrÃ¸nsted Acid and Reaction-Derived Carbonaceous Active Sites in Zeolites. Journal of Physical Chemistry C, 2020, 124, 15839-15855.	1.5	7
11	Reactivity descriptors in acid catalysis: acid strength, proton affinity and hostâ€"guest interactions. Chemical Communications, 2020, 56, 7371-7398.	2.2	27
12	Mechanistic insights and consequences of intrapore liquids in ethene, propene, and butene dimerization on isolated Ni2+ sites grafted within aluminosilicate mesopores. Journal of Catalysis, 2020, 389, 690-705.	3.1	34
13	Elementary steps and site requirements in formic acid dehydration reactions on anatase and rutile TiO2 surfaces. Journal of Catalysis, 2020, 383, 60-76.	3.1	26
14	Reaction-Transport Selectivity Models and the Design of Fischerâ€"Tropsch Catalysts. , 2020, , 199-258.		5
15	Simulation Techniques for the Characterization of Structural and Transport Properties of Catalyst Pellets. , 2020, , 89-136.		0
16	Isomer sieving and the selective formation of terminal methyl isomers in reactions of linear alkanes on one-dimensional zeolites. Journal of Catalysis, 2019, 377, 255-270.	3.1	27
17	Reactivity and selectivity descriptors of dioxygen activation routes on metal oxides. Journal of Catalysis, 2019, 377, 692-710.	3.1	9
18	Hydrogen Chemisorption Isotherms on Platinum Particles at Catalytic Temperatures: Langmuir and Two-Dimensional Gas Models Revisited. Journal of Physical Chemistry C, 2019, 123, 8447-8462.	1.5	28

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19	Selective conversion of acetone to isobutene and acetic acid on aluminosilicates: Kinetic coupling between acid-catalyzed and radical-mediated pathways. Journal of Catalysis, 2018, 360, 66-80.	3.1	35
20	Entropy-Driven High Reactivity of Formaldehyde in Nucleophilic Attack by Enolates on Oxide Surfaces. Journal of the American Chemical Society, 2018, 140, 775-782.	6.6	19
21	Synthetic strategies for the encapsulation of nanoparticles of Ni, Co, and Fe oxides within crystalline microporous aluminosilicates. Microporous and Mesoporous Materials, 2018, 270, 10-23.	2.2	35
22	Consequences of Acid Strength and Diffusional Constraints for Alkane Isomerization and Î²-Scission Turnover Rates and Selectivities on Bifunctional Metal-Acid Catalysts. Journal of Physical Chemistry C, 2018, 122, 25475-25497.	1.5	34
23	Effects of Charge, Size, and Shape of Transition States, Bound Intermediates, and Confining Voids in Reactions of Alkenes on Solid Acids. ChemCatChem, 2018, 10, 4028-4037.	1.8	27
24	Isomerization and Î²-scission reactions of alkanes on bifunctional metal-acid catalysts: Consequences of confinement and diffusional constraints on reactivity and selectivity. Journal of Catalysis, 2018, 368, 389-410.	3.1	104
25	Mechanism and site requirements for thiophene hydrodesulfurization on supported Re domains in metal or sulfide form. Journal of Catalysis, 2018, 368, 411-426.	3.1	17
26	First-principles theoretical assessment of catalysis by confinement: NOâ€“O2 reactions within voids of molecular dimensions in siliceous crystalline frameworks. Physical Chemistry Chemical Physics, 2018, 20, 15725-15735.	1.3	22
27	Dioxygen activation routes in Mars-van Krevelen redox cycles catalyzed by metal oxides. Journal of Catalysis, 2018, 364, 228-247.	3.1	36
28	CONSEQUENCES OF CONFINEMENT FOR CATALYSIS WITHIN VOIDS OF MOLECULAR DIMENSIONS. , 2018, , .		1
29	Elementary steps in acetone condensation reactions catalyzed by aluminosilicates with diverse void structures. Journal of Catalysis, 2017, 346, 134-153.	3.1	73
30	Catalytic routes to fuels from C₁ and oxygenate molecules. Faraday Discussions, 2017, 197, 9-39.	1.6	20
31	Catalysis for Fuels: general discussion. Faraday Discussions, 2017, 197, 165-205.	1.6	8
32	Stability of bound species during alkene reactions on solid acids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3900-E3908.	3.3	52
33	Experimental and theoretical assessment of the mechanism and site requirements for ketonization of carboxylic acids on oxides. Journal of Catalysis, 2017, 345, 183-206.	3.1	95
34	Experimental and theoretical assessment of the mechanism of hydrogen transfer in alkane-alkene coupling on solid acids. Journal of Catalysis, 2017, 354, 287-298.	3.1	7
35	Dense CO Adlayers as Enablers of CO Hydrogenation Turnovers on Ru Surfaces. Journal of the American Chemical Society, 2017, 139, 11789-11802.	6.6	54
36	Experimental and Theoretical Evidence for the Reactivity of Bound Intermediates in Ketonization of Carboxylic Acids and Consequences of Acidâ€“Base Properties of Oxide Catalysts. Journal of Physical Chemistry C, 2017, 121, 18030-18046.	1.5	33

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37	Synthesis of highly dispersed cobalt oxide clusters encapsulated within LTA zeolites. Journal of Catalysis, 2017, 356, 173-185.	3.1	33
38	Stabilization of active, selective, and regenerable Ni-based dimerization catalysts by condensation of ethene withinordered mesopores. Journal of Catalysis, 2017, 352, 505-514.	3.1	67
39	Catalytic diversity conferred by confinement of protons within porous aluminosilicates in Prins condensation reactions. Journal of Catalysis, 2017, 352, 415-435.	3.1	20
40	Theoretical insights into the sites and mechanisms for base catalyzed esterification and aldol condensation reactions over Cu. Faraday Discussions, 2017, 197, 59-86.	1.6	23
41	Challenges and strategies in the encapsulation and stabilization of monodisperse Au clusters within zeolites. Journal of Catalysis, 2016, 339, 195-208.	3.1	100
42	Acid strength and metal-acid proximity effects on methylcyclohexane ring contraction turnover rates and selectivities. Journal of Catalysis, 2016, 344, 817-830.	3.1	27
43	Mechanism of Isobutanalâ€"Isobutene Prins Condensation Reactions on Solid BrÃ¸nsted Acids. ACS Catalysis, 2016, 6, 7664-7684.	5.5	25
44	Effects of Void Environment and Acid Strength on Alkene Oligomerization Selectivity. ACS Catalysis, 2016, 6, 7059-7070.	5.5	104
45	Substituent Effects and Molecular Descriptors of Reactivity in Condensation and Esterification Reactions of Oxygenates on Acidâ€"Base Pairs at TiO₂ and ZrO₂ Surfaces. Journal of Physical Chemistry C, 2016, 120, 21589-21616.	1.5	44
46	Synthesis of stable monodisperse AuPd, AuPt, and PdPt bimetallic clusters encapsulated within LTA-zeolites. Journal of Catalysis, 2016, 342, 125-137.	3.1	55
47	Mechanistic assessments of NO oxidation turnover rates and active site densities on WO3-promoted CeO2 catalysts. Journal of Catalysis, 2016, 342, 84-97.	3.1	35
48	Synthesis of Bimetallic AuPt Clusters with Clean Surfaces via Sequential Displacement-Reduction Processes. Chemistry of Materials, 2016, 28, 5872-5886.	3.2	18
49	Toward More Complete Descriptors of Reactivity in Catalysis by Solid Acids. ACS Catalysis, 2016, 6, 5386-5392.	5.5	42
50	Reactivity and Selectivity Descriptors for the Activation of Câ€"H Bonds in Hydrocarbons and Oxygenates on Metal Oxides. Journal of Physical Chemistry C, 2016, 120, 16741-16760.	1.5	75
51	Catalysis on solid acids: Mechanism and catalyst descriptors in oligomerization reactions of light alkenes. Journal of Catalysis, 2016, 344, 553-569.	3.1	80
52	Displacement-reduction routes to PtPd clusters and mechanistic inferences for the synthesis of other bimetallic compositions. Journal of Catalysis, 2016, 344, 389-400.	3.1	11
53	Condensation and esterification reactions of alkanals, alkanones, and alkanols on TiO2: Elementary steps, site requirements, and synergistic effects of bifunctional strategies. Journal of Catalysis, 2016, 340, 302-320.	3.1	85
54	Effects of Chain Length on the Mechanism and Rates of Metal-Catalyzed Hydrogenolysis of n-Alkanes. Journal of Physical Chemistry C, 2016, 120, 8125-8138.	1.5	49

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55	Dynamics and Thermodynamics of Pdâ€"PdO Phase Transitions: Effects of Pd Cluster Size and Kinetic Implications for Catalytic Methane Combustion. Journal of Physical Chemistry C, 2016, 120, 1446-1460.	1.5	107
56	Preferential activation of CO near hydrocarbon chains during Fischerâ€"Tropsch synthesis on Ru. Journal of Catalysis, 2016, 337, 91-101.	3.1	54
57	Kinetic and Theoretical Insights into the Mechanism of Alkanol Dehydration on Solid BrÃ¸nsted Acid Catalysts. Journal of Physical Chemistry C, 2016, 120, 3371-3389.	1.5	42
58	Role of Branching on the Rate and Mechanism of Câ€"C Cleavage in Alkanes on Metal Surfaces. ACS Catalysis, 2016, 6, 469-482.	5.5	40
59	Catalytic Ring Opening of Cycloalkanes on Ir Clusters: Alkyl Substitution Effects on the Structure and Stability of Câ€"C Bond Cleavage Transition States. Journal of Physical Chemistry C, 2015, 119, 2597-2613.	1.5	38
60	Synthesis of Zeolites via Interzeolite Transformations without Organic Structure-Directing Agents. Chemistry of Materials, 2015, 27, 2056-2066.	3.2	159
61	Prevalence of Bimolecular Routes in the Activation of Diatomic Molecules with Strong Chemical Bonds (O2, NO, CO, N2) on Catalytic Surfaces. Accounts of Chemical Research, 2015, 48, 1254-1262.	7.6	53
62	Kinetic and Mechanistic Assessment of Alkanol/Alkanal Decarbonylation and Deoxygenation Pathways on Metal Catalysts. Journal of the American Chemical Society, 2015, 137, 11984-11995.	6.6	55
63	The Strength of BrÃ¸nsted Acid Sites in Microporous Aluminosilicates. ACS Catalysis, 2015, 5, 5741-5755.	5.5	209
64	Mechanistic Details and Reactivity Descriptors in Oxidation and Acid Catalysis of Methanol. ACS Catalysis, 2015, 5, 666-682.	5.5	49
65	Hydrothermal synthesis of LTA-encapsulated metal clusters and consequences for catalyst stability, reactivity, and selectivity. Journal of Catalysis, 2014, 311, 458-468.	3.1	120
66	Theoretical and kinetic assessment of the mechanism of ethane hydrogenolysis on metal surfaces saturated with chemisorbed hydrogen. Journal of Catalysis, 2014, 311, 350-356.	3.1	55
67	Methanol Oxidative Dehydrogenation on Oxide Catalysts: Molecular and Dissociative Routes and Hydrogen Addition Energies as Descriptors of Reactivity. Journal of Physical Chemistry C, 2014, 118, 26115-26129.	1.5	39
68	Kinetic, Spectroscopic, and Theoretical Assessment of Associative and Dissociative Methanol Dehydration Routes in Zeolites. Angewandte Chemie - International Edition, 2014, 53, 12177-12181.	7.2	122
69	Ionic and Covalent Stabilization of Intermediates and Transition States in Catalysis by Solid Acids. Journal of the American Chemical Society, 2014, 136, 15229-15247.	6.6	43
70	Mechanistic Evidence for Sequential Displacementâ€"Reduction Routes in the Synthesis of Pdâ€"Au Clusters with Uniform Size and Clean Surfaces. Journal of Physical Chemistry C, 2014, 118, 7468-7479.	1.5	38
71	Mechanistic interpretation of the effects of acid strength on alkane isomerization turnover rates and selectivity. Journal of Catalysis, 2014, 319, 283-296.	3.1	64
72	Encapsulation of Metal Clusters within MFI via Interzeolite Transformations and Direct Hydrothermal Syntheses and Catalytic Consequences of Their Confinement. Journal of the American Chemical Society, 2014, 136, 15280-15290.	6.6	211

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73	Metal-Catalyzed Câ€"C Bond Cleavage in Alkanes: Effects of Methyl Substitution on Transition-State Structures and Stability. Journal of the American Chemical Society, 2014, 136, 9664-9676.	6.6	87
74	Implications of Transition State Confinement within Small Voids for Acid Catalysis. Journal of Physical Chemistry C, 2014, 118, 17787-17800.	1.5	115
75	Catalytic NO activation and NOâ€"H 2 reaction pathways. Journal of Catalysis, 2014, 319, 95-109.	3.1	31
76	Acid strength and solvation in catalysis by MFI zeolites and effects of the identity, concentration and location of framework heteroatoms. Journal of Catalysis, 2014, 312, 58-68.	3.1	216
77	Transition-State Enthalpy and Entropy Effects on Reactivity and Selectivity in Hydrogenolysis of n-Alkanes. Journal of the American Chemical Society, 2013, 135, 18586-18599.	6.6	113
78	Catalysis by Confinement: Enthalpic Stabilization of NO Oxidation Transition States by Micropororous and Mesoporous Siliceous Materials. Journal of Physical Chemistry C, 2013, 117, 20666-20674.	1.5	44
79	Characterization and comparison of pore landscapes in crystalline porous materials. Journal of Molecular Graphics and Modelling, 2013, 44, 208-219.	1.3	130
80	From rays to structures: Representation and selection of void structures in zeolites using stochastic methods. Microporous and Mesoporous Materials, 2013, 181, 208-216.	2.2	13
81	The catalytic diversity of zeolites: confinement and solvation effects within voids of molecular dimensions. Chemical Communications, 2013, 49, 3491.	2.2	219
82	Structure sensitivity via decoration of low-coordination exposed metal atoms: CO oxidation catalysis on Pt clusters. Journal of Catalysis, 2013, 301, 198-209.	3.1	36
83	CO Chemisorption and Dissociation at High Coverages during CO Hydrogenation on Ru Catalysts. Journal of the American Chemical Society, 2013, 135, 6107-6121.	6.6	204
84	Consequences of Metalâ€"Oxide Interconversion for Câ€"H Bond Activation during CH₄ Reactions on Pd Catalysts. Journal of the American Chemical Society, 2013, 135, 15425-15442.	6.6	256
85	Mechanistic Role of Water on the Rate and Selectivity of Fischerâ€"Tropsch Synthesis on Ruthenium Catalysts. Angewandte Chemie - International Edition, 2013, 52, 12273-12278.	7.2	138
86	Synthesis and Catalytic Properties of Metal Clusters Encapsulated within Small-Pore (SOD, GIS, ANA) Zeolites. Journal of the American Chemical Society, 2012, 134, 17688-17695.	6.6	245
87	The Roles of Entropy and Enthalpy in Stabilizing Ion-Pairs at Transition States in Zeolite Acid Catalysis. Accounts of Chemical Research, 2012, 45, 229-238.	7.6	197
88	Selective Homogeneous and Heterogeneous Catalytic Conversion of Methanol/Dimethyl Ether to Triptane. Accounts of Chemical Research, 2012, 45, 653-662.	7.6	39
89	Catalytic NO Oxidation Pathways and Redox Cycles on Dispersed Oxides of Rhodium and Cobalt. ChemCatChem, 2012, 4, 1397-1404.	1.8	28
90	Acid strength and solvation effects on methylation, hydride transfer, and isomerization rates during catalytic homologation of C1 species. Journal of Catalysis, 2012, 285, 19-30.	3.1	57

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91	Mechanistic interpretation of CO oxidation turnover rates on supported Au clusters. Journal of Catalysis, 2012, 285, 92-102.	3.1	111
92	Catalytic reactions of dioxygen with ethane and methane on platinum clusters: Mechanistic connections, site requirements, and consequences of chemisorbed oxygen. Journal of Catalysis, 2012, 285, 260-272.	3.1	64
93	Solvation and acid strength effects on catalysis by faujasite zeolites. Journal of Catalysis, 2012, 286, 214-223.	3.1	127
94	Formation of Câ€"C and Câ€"O Bonds and Oxygen Removal in Reactions of Alkanediols, Alkanols, and Alkanals on Copper Catalysts. Journal of the American Chemical Society, 2011, 133, 20384-20398.	6.6	47
95	Chemisorption of CO and Mechanism of CO Oxidation on Supported Platinum Nanoclusters. Journal of the American Chemical Society, 2011, 133, 4498-4517.	6.6	448
96	NO_xInteractions with Dispersed BaO: Adsorption Kinetics, Chemisorbed Species, and Effects of Oxidation Catalyst Sites. Journal of Physical Chemistry C, 2011, 115, 6561-6570.	1.5	22
97	Elementary Steps, the Role of Chemisorbed Oxygen, and the Effects of Cluster Size in Catalytic CH₄â€"O₂ Reactions on Palladium. Journal of Physical Chemistry C, 2011, 115, 17845-17855.	1.5	93
98	Silica-supported aminoxyls as reactive materials for NOxremoval. Journal of Materials Chemistry, 2011, 21, 982-990.	6.7	11
99	Catalytic hydrogenation of alkenes on acidic zeolites: Mechanistic connections to monomolecular alkane dehydrogenation reactions. Journal of Catalysis, 2011, 277, 36-45.	3.1	63
100	Mechanistic details of acid-catalyzed reactions and their role in the selective synthesis of triptane and isobutane from dimethyl ether. Journal of Catalysis, 2011, 277, 173-195.	3.1	81
101	Catalytic consequences of acid strength in the conversion of methanol to dimethyl ether. Journal of Catalysis, 2011, 278, 78-93.	3.1	178
102	Selectivity of chemisorbed oxygen in Câ€"H bond activation and CO oxidation and kinetic consequences for CH4â€"O2 catalysis on Pt and Rh clusters. Journal of Catalysis, 2011, 283, 10-24.	3.1	81
103	Reactivity of Chemisorbed Oxygen Atoms and Their Catalytic Consequences during CH₄â€"O₂ Catalysis on Supported Pt Clusters. Journal of the American Chemical Society, 2011, 133, 15958-15978.	6.6	184
104	Catalytic Coâ€Homologation of Alkanes and Dimethyl Ether and Promotion by Adamantane as a Hydride Transfer Coâ€Catalyst. ChemCatChem, 2011, 3, 704-718.	1.8	26
105	Mechanism and Site Requirements of Thiophene Hydrodesulfurization Catalyzed by Supported Pt Clusters. ChemCatChem, 2011, 3, 1166-1175.	1.8	36
106	Catalytic Alkylation Routes via Carboniumâ€ionâ€Like Transition States on Acidic Zeolites. ChemCatChem, 2011, 3, 1134-1138.	1.8	8
107	Mechanism and site requirements for NO oxidation on Pd catalysts. Journal of Catalysis, 2010, 272, 74-81.	3.1	74
108	CO activation pathways and the mechanism of Fischerâ€"Tropsch synthesis. Journal of Catalysis, 2010, 272, 287-297.	3.1	487

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109	Thiophene hydrodesulfurization catalysis on supported Ru clusters: Mechanism and site requirements for hydrogenation and desulfurization pathways. Journal of Catalysis, 2010, 273, 245-256.	3.1	68
110	Catalytic activation and reforming of methane on supported palladium clusters. Journal of Catalysis, 2010, 274, 52-63.	3.1	106
111	Homogeneous Oxidation Reactions of Propanediols at Low Temperatures. ChemSusChem, 2010, 3, 1063-1070.	3.6	35
112	Effects of Partial Confinement on the Specificity of Monomolecular Alkane Reactions for Acid Sites in Side Pockets of Mordenite. Angewandte Chemie - International Edition, 2010, 49, 808-811.	7.2	105
113	Kinetically Relevant Steps and H₂/D₂Isotope Effects in Fischerâ^'Tropsch Synthesis on Fe and Co Catalysts. Journal of Physical Chemistry C, 2010, 114, 19761-19770.	1.5	110
114	Mercaptosilane-Assisted Synthesis of Metal Clusters within Zeolites and Catalytic Consequences of Encapsulation. Journal of the American Chemical Society, 2010, 132, 9129-9137.	6.6	301
115	Functional assessment of the strength of solid acid catalysts. Journal of Catalysis, 2009, 264, 54-66.	3.1	92
116	Formic Acid Dehydrogenation on Auâ€Based Catalysts at Nearâ€Ambient Temperatures. Angewandte Chemie - International Edition, 2009, 48, 4800-4803.	7.2	292
117	Selective Homologation Routes to 2,2,3â€Trimethylbutane on Solid Acids. Angewandte Chemie - International Edition, 2009, 48, 3814-3816.	7.2	67
118	Copper deposition onto silicon by galvanic displacement: Effect of Cu complex formation in NH4F solutions. Electrochimica Acta, 2009, 54, 3270-3277.	2.6	9
119	Role of Câ^'H Bond Strength in the Rate and Selectivity of Oxidative Dehydrogenation of Alkanes. Journal of Physical Chemistry C, 2009, 113, 12380-12386.	1.5	37
120	NO Oxidation Catalysis on Pt Clusters: Elementary Steps, Structural Requirements, and Synergistic Effects of NO₂Adsorption Sites. Journal of Physical Chemistry C, 2009, 113, 13331-13340.	1.5	82
121	Catalytic Consequences of Spatial Constraints and Acid Site Location for Monomolecular Alkane Activation on Zeolites. Journal of the American Chemical Society, 2009, 131, 1958-1971.	6.6	277
122	Mechanistic Aspects and Reaction Pathways for Oxidative Coupling of Methane on Mn/Na₂WO₄/SiO₂ Catalysts. Journal of Physical Chemistry C, 2009, 113, 10131-10145.	1.5	134
123	Consequences of Acid Strength for Isomerization and Elimination Catalysis on Solid Acids. Journal of the American Chemical Society, 2009, 131, 6554-6565.	6.6	138
124	Catalytic epoxidation of propene with H2Oâ€"O₂reactants on Au/TiO₂. Chemical Communications, 2009, , 352-354.	2.2	71
125	Correlating Acid Properties and Catalytic Function: A First-Principles Analysis of Alcohol Dehydration Pathways on Polyoxometalates. Journal of Physical Chemistry C, 2009, 113, 1872-1885.	1.5	110
126	Mechanism and Site Requirements for Ethanol Oxidation on Vanadium Oxide Domains. Journal of Physical Chemistry C, 2009, 113, 2830-2836.	1.5	104

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127	Rate and Selectivity Enhancements Mediated by OH Radicals in the Oxidative Coupling of Methane Catalyzed by Mn/Na₂WO₄/SiO₂. Angewandte Chemie - International Edition, 2008, 47, 7689-7693.	7.2	96
128	Support and promoter effects in the selective oxidation of ethane to acetic acid catalyzed by Mo-V-Nb oxides. Applied Catalysis A: General, 2008, 334, 339-347.	2.2	44
129	A Link between Reactivity and Local Structure in Acid Catalysis on Zeolites. Accounts of Chemical Research, 2008, 41, 559-567.	7.6	257
130	Entropy considerations in monomolecular cracking of alkanes on acidic zeolites. Journal of Catalysis, 2008, 253, 221-224.	3.1	112
131	Catalytic dehydroisomerization of n-alkanes to isoalkenes. Journal of Catalysis, 2008, 255, 134-137.	3.1	20
132	Mechanistic Consequences of Composition in Acid Catalysis by Polyoxometalate Keggin Clusters. Journal of the American Chemical Society, 2008, 130, 10369-10379.	6.6	141
133	Pt/[Fe]ZSM-5 modified by Na and Cs cations: an active and selective catalyst for dehydrogenation of n-alkanes to n-alkenes. Chemical Communications, 2008, , 594-596.	2.2	22
134	Structure and function of oxide nanostructures: catalytic consequences of size and composition. Physical Chemistry Chemical Physics, 2008, 10, 5331.	1.3	47
135	Isotopic and Kinetic Assessment of the Mechanism of CH₃OHâˆ’H₂O Catalysis on Supported Copper Clusters. Journal of Physical Chemistry C, 2008, 112, 17235-17243.	1.5	22
136	Kinetics and Mechanism of Ethane Oxidation to Acetic Acid on Catalysts Based on Moâˆ’Vâˆ’Nb Oxides. Journal of Physical Chemistry C, 2008, 112, 15001-15008.	1.5	19
137	Copper Deposition onto Silicon by Galvanic Displacement: Effect of Silicon Dissolution Rate. Journal of the Electrochemical Society, 2008, 155, E70.	1.3	30
138	Dynamics of Copper Deposition onto Silicon by Galvanic Displacement. Journal of the Electrochemical Society, 2008, 155, D244.	1.3	14
139	Specificity of Sites within Eight-Membered Ring Zeolite Channels for Carbonylation of Methyls to Acetyls. Journal of the American Chemical Society, 2007, 129, 4919-4924.	6.6	302
140	Photoluminescence and Charge-Transfer Complexes of Calixarenes Grafted on TiO2 Nanoparticles. Chemistry of Materials, 2007, 19, 4998-5005.	3.2	65
141	Bifunctional pathways mediated by Pt clusters and Al2O3 in the catalytic combustion of dimethyl ether. Chemical Communications, 2007, , 2992.	2.2	12
142	Catalytic oxidation of methanol on Pd metal and oxide clusters at near-ambient temperatures. Physical Chemistry Chemical Physics, 2007, 9, 4902.	1.3	62
143	Structural Assessment and Catalytic Consequences of the Oxygen Coordination Environment in Grafted Tiâˆ’Calixarenes. Journal of the American Chemical Society, 2007, 129, 1122-1131.	6.6	65
144	Reactant Selectivity and Regiospecificity in the Catalytic Oxidation of Alkanes on Metal-Substituted Aluminophosphates. Journal of Physical Chemistry C, 2007, 111, 1402-1411.	1.5	42

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145	Structure of Zirconium-Exchanged H-ZSM5 Prepared by Vapor Exchange of ZrCl4. Chemistry of Materials, 2007, 19, 1877-1882.	3.2	12
146	The Role of Outer-Sphere Surface Acidity in Alkene Epoxidation Catalyzed by Calixareneâˆ'Ti(IV) Complexes. Journal of the American Chemical Society, 2007, 129, 15585-15595.	6.6	61
147	Structural Requirements and Reaction Pathways in Dimethyl Ether Combustion Catalyzed by Supported Pt Clusters. Journal of the American Chemical Society, 2007, 129, 13201-13212.	6.6	49
148	Isolation of Rhenium and ReOx Species within ZSM5 Channels and their Catalytic Function in the Activation of Alkanes and Alkanols. Chemistry - A European Journal, 2007, 13, 3048-3057.	1.7	33
149	Selective Catalytic Oxidation of Ethanol to Acetic Acid on Dispersed Moâ€Vâ€Nb Mixed Oxides. Chemistry - A European Journal, 2007, 13, 9324-9330.	1.7	62
150	RuO2 Clusters within LTA Zeolite Cages: Consequences of Encapsulation on Catalytic Reactivity and Selectivity. Angewandte Chemie - International Edition, 2007, 46, 3697-3700.	7.2	67
151	Synergistic Effects of TiO₂ and Palladiumâ€Based Cocatalysts on the Selective Oxidation of Ethene to Acetic Acid on Moâ€"Vâ€"Nb Oxide Domains. Angewandte Chemie - International Edition, 2007, 46, 8649-8652.	7.2	21
152	Catalytic Consequences of Composition in Polyoxometalate Clusters with Keggin Structure. Angewandte Chemie - International Edition, 2007, 46, 7864-7868.	7.2	108
153	Catalytic oxidation of n-hexane on Mn-exchanged zeolites: Turnover rates, regioselectivity, and spatial constraints. Journal of Catalysis, 2007, 245, 316-325.	3.1	55
154	Energetics of Small Molecule and Water Complexation in Hydrophobic Calixarene Cavities. Langmuir, 2006, 22, 4004-4014.	1.6	32
155	Nature, Density, and Catalytic Role of Exposed Species on Dispersed VOx/CrOx/Al2O3Catalysts. Journal of Physical Chemistry B, 2006, 110, 2732-2739.	1.2	16
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