Emiel Hensen

List of Publications by Year
in descending order

568	34,581	2544 96	7950 149
papers	citations	h-index	g-index

595	595	595	26469
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ammonia electrocatalytic synthesis from nitrate. Electrochemical Science Advances, 2023, 3, .	2.8	10
2	A scanning pulse reaction technique for transient analysis of the methanol-to-hydrocarbons reaction. Catalysis Today, 2023, 417, 113740.	4.4	4
3	Alkali catalyzes methanethiol synthesis from CO and H2S. Journal of Catalysis, 2022, 405, 116-128.	6.2	8
4	Copper promotion of chromium-doped iron oxide water-gas shift catalysts under industrially relevant conditions. Journal of Catalysis, 2022, 405, 391-403.	6.2	7
5	Synthesis of Nanocrystalline Mordenite Zeolite with Improved Performance in Benzene Alkylation and nâ€Paraffins Hydroconversion. ChemCatChem, 2022, 14, .	3.7	6
6	Insights into Supported Subnanometer Catalysts Exposed to CO via Machine-Learning-Enabled Multiscale Modeling. Chemistry of Materials, 2022, 34, 1611-1619.	6.7	8
7	Effective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Diformylfuran by an Acetal Protection Strategy. ChemSusChem, 2022, 15, .	6.8	7
8	Isotopic Exchange Study on the Kinetics of Fe Carburization and the Mechanism of the Fischerâ€“Tropsch Reaction. ACS Catalysis, 2022, 12, 2877-2887.	11.2	10
9	Renewable Thiolâ€“yne â€œClickâ€•Networks Based on Propargylated Lignin for Adhesive Resin Applications. ACS Applied Polymer Materials, 2022, 4, 2544-2552.	4.4	12
10	A Catalytic Strategy for Selective Production of 5â€Formylfuranâ€2â€carboxylic Acid and Furanâ€2,5â€dicarboxylic Acid. ChemCatChem, 2022, 14, .	3.7	6
11	Lateral Interactions of Dynamic Adlayer Structures from Artificial Neural Networks. Journal of Physical Chemistry C, 2022, 126, 5529-5540.	3.1	5
12	Protection Strategies for the Conversion of Biobased Furanics to Chemical Building Blocks. ACS Sustainable Chemistry and Engineering, 2022, 10, 3116-3130.	6.7	13
13	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
14	Influence of polyvinylpyrrolidone as stabilizing agent on Pt nanoparticles in Pt/H-BEA catalyzed hydroconversion of n-hexadecane. Fuel, 2022, 317, 123506.	6.4	3
15	Influence of the size, order and topology of mesopores in bifunctional Pd-containing acidic SBA-15 and M41S catalysts for n-hexadecane hydrocracking. Fuel Processing Technology, 2022, 232, 107259.	7.2	6
16	Amorphous Silicaâ€Alumina as Suitable Catalyst for the Dielsâ€Alder Cycloaddition of 2,5â€Dimethylfuran and Ethylene to Biobased pâ€Xylene. ChemCatChem, 2022, 14, .	3.7	3
17	Facile synthesis of nanosized mordenite and beta zeolites with improved catalytic performance: non-surfactant diquaternary ammonium compounds as structure-directing agents. Inorganic Chemistry Frontiers, 2022, 9, 3200-3216.	6.0	11
18	Imaging the facet surface strain state of supported multi-faceted Pt nanoparticles during reaction. Nature Communications, 2022, 13, .	12.8	11

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19	Titelbild: Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO₂ Catalysts (Angew. Chem. 23/2022). Angewandte Chemie, 2022, 134, .	2.0	0
20	Bifunctional Ptâ€“Re Catalysts in Hydrodeoxygenation of Isoeugenol as a Model Compound for Renewable Jet Fuel Production. ACS Engineering Au, 2022, 2, 436-449.	5.1	7
21	Sintering and carbidization under simulated high conversion on a cobalt-based Fischer-Tropsch catalyst; manganese oxide as a structural promotor. Journal of Catalysis, 2022, 413, 106-118.	6.2	12
22	Different mechanisms of ethane aromatization over Mo/ZSM-5 and Ga/ZSM-5 catalysts. Catalysis Today, 2021, 369, 184-192.	4.4	43
23	Promoting oxygen evolution of IrO2 in acid electrolyte by Mn. Electrochimica Acta, 2021, 366, 137448.	5.2	21
24	A novel semi-batch autoclave reactor to overcome thermal dwell time in solvent liquefaction experiments. Chemical Engineering Journal, 2021, 417, 128074.	12.7	4
25	Shape selectivity in linear paraffins hydroconversion in 10-membered-ring pore zeolites. Journal of Catalysis, 2021, 394, 284-298.	6.2	17
26	On the Stability of Co₃O₄ Oxygen Evolution Electrocatalysts in Acid. ChemCatChem, 2021, 13, 459-467.	3.7	32
27	Influence of hematite morphology on the CO oxidation performance of Au/Î±-Fe2O3. Chinese Journal of Catalysis, 2021, 42, 658-665.	14.0	13
28	Highly efficient CO₂ electrolysis within a wide operation window using octahedral tin oxide single crystals. Journal of Materials Chemistry A, 2021, 9, 7848-7856.	10.3	42
29	Metal-support interfaces in ceria-based catalysts. , 2021, , .		0
30	Selective methanethiol-to-olefins conversion over HSSZ-13 zeolite. Chemical Communications, 2021, 57, 3323-3326.	4.1	8
31	Heterogeneous catalysts for the non-oxidative conversion of methane to aromatics and olefins. , 2021, , .		4
32	Furfural hydrodeoxygenation (HDO) over silica-supported metal phosphides â€“ The influence of metalâ€“phosphorus stoichiometry on catalytic properties. Journal of Catalysis, 2021, 403, 181-193.	6.2	28
33	A Tensileâ€Strained Ptâ€“Rh Singleâ€Atom Alloy Remarkably Boosts Ethanol Oxidation. Advanced Materials, 2021, 33, e2008508.	21.0	111
34	Facetâ€Dependent Strain Determination in Electrochemically Synthetized Platinum Model Catalytic Nanoparticles. Small, 2021, 17, e2007702.	10.0	4
35	Nature of Enhanced BrÃ¸nsted Acidity Induced by Extraframework Aluminum in an Ultrastabilized Faujasite Zeolite: An In Situ NMR Study. Journal of Physical Chemistry C, 2021, 125, 9050-9059.	3.1	28
36	Reversible hydrogenation restores defected graphene to graphene. Science China Chemistry, 2021, 64, 1047-1056.	8.2	6

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37	Mechanistic study of catalytic CO₂ hydrogenation in a plasma by operando DRIFT spectroscopy. Journal Physics D: Applied Physics, 2021, 54, 264004.	2.8	13
38	Flame Synthesis of Cu/ZnOâ€“CeO₂ Catalysts: Synergistic Metalâ€“Support Interactions Promote CH₃OH Selectivity in CO₂ Hydrogenation. ACS Catalysis, 2021, 11, 4880-4892.	11.2	73
39	Improved Pd/CeO₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO₂ Lattice Oxygen by Fe Doping. ACS Catalysis, 2021, 11, 5614-5627.	11.2	44
40	A Multiâ€Parametric Catalyst Screening for CO₂ Hydrogenation to Ethanol. ChemCatChem, 2021, 13, 3324-3332.	3.7	14
41	Studying Reaction Mechanisms in Solution Using a Distributed Electron Microscopy Method. ACS Nano, 2021, 15, 10296-10308.	14.6	13
42	The Impact of Biomass and Acid Loading on Methanolysis during Two-Step Lignin-First Processing of Birchwood. Catalysts, 2021, 11, 750.	3.5	11
43	Enumerating Active Sites on Metal Nanoparticles: Understanding the Size Dependence of Cobalt Particles for CO Dissociation. ACS Catalysis, 2021, 11, 8484-8492.	11.2	26
44	Interface dynamics of Pdâ€“CeO2 single-atom catalysts during CO oxidation. Nature Catalysis, 2021, 4, 469-478.	34.4	244
45	Investigation of the combustion and emissions of ligninâ€derived aromatic oxygenates in a marine diesel engine. Biofuels, Bioproducts and Biorefining, 2021, 15, 1709.	3.7	3
46	The role of H2 in Fe carburization by CO in Fischer-Tropsch catalysts. Journal of Catalysis, 2021, 400, 93-102.	6.2	17
47	Niâ€“In Synergy in CO₂ Hydrogenation to Methanol. ACS Catalysis, 2021, 11, 11371-11384.	11.2	79
48	Twin boundary migration in an individual platinum nanocrystal during catalytic CO oxidation. Nature Communications, 2021, 12, 5385.	12.8	14
49	Real-time dynamics and structures of supported subnanometer catalysts via multiscale simulations. Nature Communications, 2021, 12, 5430.	12.8	14
50	Lignin-Based Additives for Improved Thermo-Oxidative Stability of Biolubricants. ACS Sustainable Chemistry and Engineering, 2021, 9, 12548-12559.	6.7	41
51	The role of chromium in iron-based high-temperature water-gas shift catalysts under industrial conditions. Applied Catalysis B: Environmental, 2021, 297, 120465.	20.2	15
52	Stabilization effects in binary colloidal Cu and Ag nanoparticle electrodes under electrochemical CO₂ reduction conditions. Nanoscale, 2021, 13, 4835-4844.	5.6	29
53	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials. Small, 2021, 17, e2104649.	10.0	9
54	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials (Small 49/2021). Small, 2021, 17, .	10.0	1

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55	A quantum-chemical study of the CO dissociation mechanism on low-index Miller planes of Ï´-Fe3C. Catalysis Today, 2020, 342, 152-160.	4.4	15
56	Effect of proximity and support material on deactivation of bifunctional catalysts for the conversion of synthesis gas to olefins and aromatics. Catalysis Today, 2020, 342, 161-166.	4.4	46
57	First-principles based microkinetic modeling of transient kinetics of CO hydrogenation on cobalt catalysts. Catalysis Today, 2020, 342, 131-141.	4.4	29
58	Mn promotion of rutile TiO2-RuO2 anodes for water oxidation in acidic media. Applied Catalysis B: Environmental, 2020, 261, 118225.	20.2	53
59	Assessment of the Location of Pt Nanoparticles in Pt/zeolite Y/Î³â€Al₂O₃ Composite Catalysts. ChemCatChem, 2020, 12, 615-622.	3.7	13
60	A theoretical study of the reverse waterâ€gas shift reaction on Ni(111) and Ni(311) surfaces. Canadian Journal of Chemical Engineering, 2020, 98, 740-748.	1.7	25
61	Hierarchically porous FER zeolite obtained via FAU transformation for fatty acid isomerization. Applied Catalysis B: Environmental, 2020, 263, 118356.	20.2	22
62	Investigation of the Active Phase in K-Promoted MoS₂ Catalysts for Methanethiol Synthesis. ACS Catalysis, 2020, 10, 1838-1846.	11.2	25
63	Mechanistic role of protonated polar additives in ethanol for selective transformation of biomass-related compounds. Applied Catalysis B: Environmental, 2020, 264, 118509.	20.2	40
64	Molecular weight-based fractionation of lignin oils by membrane separation technology. Holzforschung, 2020, 74, 166-174.	1.9	5
65	Stability of heterogeneous single-atom catalysts: a scaling law mapping thermodynamics to kinetics. Npj Computational Materials, 2020, 6, .	8.7	44
66	Electrocatalytic synthesis of organic carbonates. Chemical Communications, 2020, 56, 13082-13092.	4.1	12
67	Mild thermolytic solvolysis of technical lignins in polar organic solvents to a crude lignin oil. Sustainable Energy and Fuels, 2020, 4, 6212-6226.	4.9	21
68	Finite-Temperature Structures of Supported Subnanometer Catalysts Inferred via Statistical Learning and Genetic Algorithm-Based Optimization. ACS Nano, 2020, 14, 13995-14007.	14.6	27
69	Electronic Structure and Interface Energetics of CuBi₂O₄ Photoelectrodes. Journal of Physical Chemistry C, 2020, 124, 22416-22425.	3.1	39
70	Mechanistic aspects of n-paraffins hydrocracking: Influence of zeolite morphology and acidity of Pd(Pt)/ZSM-5 catalysts. Journal of Catalysis, 2020, 389, 544-555.	6.2	24
71	Stable Surface-Anchored Cu Nanocubes for CO₂ Electroreduction to Ethylene. ACS Applied Nano Materials, 2020, 3, 8328-8334.	5.0	41
72	2D surface induced self-assembly of Pd nanocrystals into nanostrings for enhanced formic acid electrooxidation. Journal of Materials Chemistry A, 2020, 8, 17128-17135.	10.3	9

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73	The Vital Role of Step-Edge Sites for Both CO Activation and Chain Growth on Cobalt Fischerâ€“Tropsch Catalysts Revealed through First-Principles-Based Microkinetic Modeling Including Lateral Interactions. ACS Catalysis, 2020, 10, 9376-9400.	11.2	37
74	Investigation of the stability of NiFe-(oxy)hydroxide anodes in alkaline water electrolysis under industrially relevant conditions. Catalysis Science and Technology, 2020, 10, 5593-5601.	4.1	35
75	Hierarchical 2D yarn-ball like metalâ€“organic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. Journal of Materials Chemistry A, 2020, 8, 22974-22982.	10.3	43
76	Evidence of Octahedral Coâ€“Moâ€“S Sites in Hydrodesulfurization Catalysts as Determined by Resonant Inelastic X-ray Scattering and X-ray Absorption Spectroscopy. ACS Catalysis, 2020, 10, 10978-10988.	11.2	19
77	Reply to: â€œPitfalls in identifying active catalyst speciesâ€. Nature Communications, 2020, 11, 4574.	12.8	0
78	Mechanism and Nature of Active Sites for Methanol Synthesis from CO/CO₂ on Cu/CeO₂. ACS Catalysis, 2020, 10, 11532-11544.	11.2	92
79	Dynamics of gold clusters on ceria during CO oxidation. Journal of Catalysis, 2020, 392, 39-47.	6.2	20
80	Catalytic Conversion of Lignocellulosic Biomass:Application of Heterogeneous and Homogeneous Catalysts to Process Biomass into Value-Added Compounds. ACS Symposium Series, 2020, , 151-182.	0.5	2
81	Tuning the reactivity of molybdenum (oxy)carbide catalysts by the carburization degree: CO₂ reduction and anisole hydrodeoxygenation. Catalysis Science and Technology, 2020, 10, 3635-3645.	4.1	27
82	Boosting CO2 hydrogenation via size-dependent metalâ€“support interactions in cobalt/ceria-based catalysts. Nature Catalysis, 2020, 3, 526-533.	34.4	286
83	Stability of Colloidal Iron Oxide Nanoparticles on Titania and Silica Support. Chemistry of Materials, 2020, 32, 5226-5235.	6.7	6
84	Impact of small promoter amounts on coke structure in dry reforming of methane over Ni/ZrO₂. Catalysis Science and Technology, 2020, 10, 3965-3974.	4.1	27
85	On the surface-dependent oxidation of Cu2O during CO oxidation: Cu2+ is more active than Cu+. Applied Catalysis A: General, 2020, 602, 117712.	4.3	29
86	Ligand-free ZnS nanoparticles: as easy and green as it gets. Chemical Communications, 2020, 56, 8707-8710.	4.1	7
87	Catalytic Hydrogenation of Renewable Levulinic Acid to Î³-Valerolactone: Insights into the Influence of Feed Impurities on Catalyst Performance in Batch and Flow Reactors. ACS Sustainable Chemistry and Engineering, 2020, 8, 5903-5919.	6.7	35
88	Hydrogenation of levulinic acid to Î³-valerolactone over Fe-Re/TiO2 catalysts. Applied Catalysis B: Environmental, 2020, 278, 119314.	20.2	57
89	Reactivity, Selectivity, and Stability of Zeoliteâ€Based Catalysts for Methane Dehydroaromatization. Advanced Materials, 2020, 32, e2002565.	21.0	86
90	Inâ€…Situ Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy of Nickelâ€Catalyzed Hydrogenation Reactions. ChemPhysChem, 2020, 21, 625-632.	2.1	21

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91	Efficient Conversion of Pine Wood Lignin to Phenol. ChemSusChem, 2020, 13, 1705-1709.	6.8	48
92	Electrochemical stability of RuO2(110)/Ru(0001) model electrodes in the oxygen and chlorine evolution reactions. Electrochimica Acta, 2020, 336, 135713.	5.2	30
93	Ni-Mn catalysts on silica-modified alumina for CO2 methanation. Journal of Catalysis, 2020, 382, 358-371.	6.2	70
94	Selective hydrogenation of 5-hydroxymethylfurfural and its acetal with 1,3-propanediol to 2,5-bis(hydroxymethyl)furan using supported rhenium-promoted nickel catalysts in water. Green Chemistry, 2020, 22, 1229-1238.	9.0	50
95	Aromatization of ethylene over zeolite-based catalysts. Catalysis Science and Technology, 2020, 10, 2774-2785.	4.1	70
96	Increased activity in the oxygen evolution reaction by Fe⁴⁺-induced hole states in perovskite La_{1â^'x}Sr_xFeO₃. Journal of Materials Chemistry A, 2020, 8, 4407-4415.	10.3	78
97	Lattice oxygen activation in transition metal doped ceria. Chinese Journal of Catalysis, 2020, 41, 977-984.	14.0	31
98	Role of bismuth on aerobic benzyl alcohol oxidation over ceria polymorph-supported gold nanoparticles. Catalysis Communications, 2020, 140, 106004.	3.3	3
99	Gas-phase selective oxidation of cyclohexanol to cyclohexanone over Au/Mg1-xCuxCr2O4 catalysts: On the role of Cu doping. Journal of Catalysis, 2020, 384, 218-230.	6.2	10
100	A bifunctional catalyst based on Nb and V oxides over alumina: oxidative cleavage of crude glycerol to green formic acid. New Journal of Chemistry, 2020, 44, 8538-8544.	2.8	2
101	Dynamics of silver particles during ethylene epoxidation. Applied Catalysis B: Environmental, 2020, 272, 118983.	20.2	21
102	A theoretical study of CO oxidation and O2 activation for transition metal overlayers on SrTiO3 perovskite. Journal of Catalysis, 2020, 391, 229-240.	6.2	5
103	Cu Electrodeposition on Nanostructured MoS₂ and WS₂ and Implications for HER Active Site Determination. Journal of the Electrochemical Society, 2020, 167, 116517.	2.9	5
104	Synthesis of Stable and Low-CO₂Selective Phase-Pure Îµ-Iron Carbide Catalysts in Synthesis Gas Conversion. ACS Symposium Series, 2020, , 229-255.	0.5	1
105	Low-temperature, atmospheric pressure reverse water-gas shift reaction in dielectric barrier plasma discharge, with outlook to use in relevant industrial processes. Chemical Engineering Science, 2020, 225, 115803.	3.8	10
106	Co-Aromatization of Furan and Methanol over ZSM-5â€"A Pathway to Bio-Aromatics. ACS Catalysis, 2019, 9, 8547-8554.	11.2	29
107	Ceriaâ€"zirconia encapsulated Ni nanoparticles for CO₂ methanation. Catalysis Science and Technology, 2019, 9, 5001-5010.	4.1	30
108	Ni³⁺-Induced Hole States Enhance the Oxygen Evolution Reaction Activity of Ni_xCo_{3â€"x}O₄ Electrocatalysts. Chemistry of Materials, 2019, 31, 7618-7625.	6.7	76

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109	Efficient Base-Metal NiMn/TiO₂ Catalyst for CO₂ Methanation. ACS Catalysis, 2019, 9, 7823-7839.	11.2	124
110	Efficient and Highly Transparent Ultraâ€Thin Nickelâ€Iron Oxyâ€hydroxide Catalyst for Oxygen Evolution Prepared by Successive Ionic Layer Adsorption and Reaction. ChemPhotoChem, 2019, 3, 1050-1054.	3.0	6
111	The Origin of High Activity of Amorphous MoS₂ in the Hydrogen Evolution Reaction. ChemSusChem, 2019, 12, 4383-4389.	6.8	90
112	Catalytic Conversion of Lignin in Woody Biomass into Phenolic Monomers in Methanol/Water Mixtures without External Hydrogen. ACS Sustainable Chemistry and Engineering, 2019, 7, 13764-13773.	6.7	82
113	Mordenite Nanorods Prepared by an Inexpensive Pyrrolidineâ€based Mesoporogen for Alkane Hydroisomerization. ChemCatChem, 2019, 11, 2754-2754.	3.7	0
114	Industrial lignin from 2G biorefineries â€“ Assessment of availability and pricing strategies. Bioresource Technology, 2019, 291, 121805.	9.6	23
115	Coverage Effects in CO Dissociation on Metallic Cobalt Nanoparticles. ACS Catalysis, 2019, 9, 7365-7372.	11.2	37
116	A Facile Direct Route to Nâ€(Un)substituted Lactams by Cycloamination of Oxocarboxylic Acids without External Hydrogen. ChemSusChem, 2019, 12, 3778-3784.	6.8	26
117	A Robust Au/ZnCr₂O₄ Catalyst with Highly Dispersed Gold Nanoparticles for Gas-Phase Selective Oxidation of Cyclohexanol to Cyclohexanone. ACS Catalysis, 2019, 9, 11104-11115.	11.2	20
118	Hierarchically Porous (Alumino)Silicates Prepared by an Imidazole-Based Surfactant and Their Application in Acid-Catalyzed Reactions. ACS Applied Materials & Interfaces, 2019, 11, 40151-40162.	8.0	8
119	Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells. Science, 2019, 366, 850-856.	12.6	1,005
120	The Origin of High Activity of Amorphous MoS 2 in the Hydrogen Evolution Reaction. ChemSusChem, 2019, 12, 4336-4336.	6.8	2
121	Influence of Reduced Cu Surface States on the Photoelectrochemical Properties of CuBi₂O₄. ACS Applied Energy Materials, 2019, 2, 6866-6874.	5.1	23
122	Structure Sensitivity of Silver-Catalyzed Ethylene Epoxidation. ACS Catalysis, 2019, 9, 9829-9839.	11.2	34
123	Template-Free Nanostructured Fluorine-Doped Tin Oxide Scaffolds for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 36485-36496.	8.0	17
124	In situstructural evolution of single particle model catalysts under ambient pressure reaction conditions. Nanoscale, 2019, 11, 331-338.	5.6	10
125	A site-sensitive quasi-in situ strategy to characterize Mo/HZSM-5 during activation. Journal of Catalysis, 2019, 370, 321-331.	6.2	40
126	Bio-Based Chemicals: Selective Aerobic Oxidation of Tetrahydrofuran-2,5-dimethanol to Tetrahydrofuran-2,5-dicarboxylic Acid Using Hydrotalcite-Supported Gold Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 4647-4656.	6.7	19

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127	Cellulose conversion to ethylene glycol by tungsten oxide-based catalysts. Molecular Catalysis, 2019, 473, 110400.	2.0	22
128	The Important Role of Rubidium Hydroxide in the Synthesis of Hierarchical ZSM-5 Zeolite Using Cetyltrimethylammonium as Structure-Directing Agent. European Journal of Inorganic Chemistry, 2019, 2019, 2493-2497.	2.0	3
129	Mild dealumination of template-stabilized zeolites by NH₄F. Catalysis Science and Technology, 2019, 9, 4239-4247.	4.1	16
130	Unraveling the Role of Lithium in Enhancing the Hydrogen Evolution Activity of MoS₂: Intercalation versus Adsorption. ACS Energy Letters, 2019, 4, 1733-1740.	17.4	45
131	Tunable colloidal Ni nanoparticles confined and redistributed in mesoporous silica for CO₂ methanation. Catalysis Science and Technology, 2019, 9, 2578-2591.	4.1	31
132	Reversible Nature of Coke Formation on Mo/ZSMâ€5 Methane Dehydroaromatization Catalysts. Angewandte Chemie - International Edition, 2019, 58, 7068-7072.	13.8	65
133	Mesoporous Doped Tungsten Oxide for Glucose Dehydration to 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 7552-7562.	6.7	32
134	Tuning Pt-CeO2 interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. Nature Communications, 2019, 10, 1358.	12.8	302
135	Investigating the role of the different metals in hydrotalcite Mg/Al-based adsorbents and their interaction with acidic sorbate species. Chemical Engineering Science, 2019, 200, 138-146.	3.8	12
136	Mordenite Nanorods Prepared by an Inexpensive Pyrrolidineâ€based Mesoporogen for Alkane Hydroisomerization. ChemCatChem, 2019, 11, 2803-2811.	3.7	14
137	Understanding the Impact of Defects on Catalytic CO Oxidation of LaFeO₃-Supported Rh, Pd, and Pt Single-Atom Catalysts. Journal of Physical Chemistry C, 2019, 123, 7290-7298.	3.1	36
138	Theoretical Approach To Predict the Stability of Supported Single-Atom Catalysts. ACS Catalysis, 2019, 9, 3289-3297.	11.2	101
139	Elucidating the electronic structure of CuWO₄ thin films for enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 11895-11907.	10.3	67
140	Insight into the Rate-Determining Step and Active Sites in the Fischerâ€“Tropsch Reaction over Cobalt Catalysts. ACS Catalysis, 2019, 9, 4189-4195.	11.2	36
141	Effective Strategy for High-Yield Furan Dicarboxylate Production for Biobased Polyester Applications. ACS Catalysis, 2019, 9, 4277-4285.	11.2	51
142	Reversible Nature of Coke Formation on Mo/ZSMâ€5 Methane Dehydroaromatization Catalysts. Angewandte Chemie, 2019, 131, 7142-7146.	2.0	4
143	N-formyl-stabilizing quasi-catalytic species afford rapid and selective solvent-free amination of biomass-derived feedstocks. Nature Communications, 2019, 10, 699.	12.8	69
144	Enhancing the electrocatalytic activity of 2H-WS₂ for hydrogen evolution via defect engineering. Physical Chemistry Chemical Physics, 2019, 21, 6071-6079.	2.8	60

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145	Insight into the Formation of Nanostructured MFI Sheets and MEL Needles Driven by Molecular Recognition. Journal of Physical Chemistry C, 2019, 123, 5326-5335.	3.1	10
146	Highly stable Pt₃Ni nanowires tailored with trace Au for the oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 26402-26409.	10.3	55
147	Understanding carbon dioxide activation and carbonâ€“carbon coupling over nickel. Nature Communications, 2019, 10, 5330.	12.8	124
148	Linear Activation Energy-Reaction Energy Relations for LaBO3 (B = Mn, Fe, Co, Ni) Supported Single-Atom Platinum Group Metal Catalysts for CO Oxidation. Journal of Physical Chemistry C, 2019, 123, 31130-31141.	3.1	12
149	Towards a quantitative determination of strain in Bragg Coherent X-ray Diffraction Imaging: artefacts and sign convention in reconstructions. Scientific Reports, 2019, 9, 17357.	3.3	23
150	A versatile mono-quaternary ammonium salt as a mesoporogen for the synthesis of hierarchical zeolites. Catalysis Science and Technology, 2019, 9, 6737-6748.	4.1	4
151	Gallium-promoted HZSM-5 zeolites as efficient catalysts for the aromatization of biomass-derived furans. Chemical Engineering Science, 2019, 198, 305-316.	3.8	68
152	Kinetic model for adsorption and desorption of H2O and CO2 on hydrotalcite-based adsorbents. Chemical Engineering Journal, 2019, 355, 520-531.	12.7	36
153	Water-Dispersible Copper Sulfide Nanocrystals via Ligand Exchange of 1-Dodecanethiol. Chemistry of Materials, 2019, 31, 541-552.	6.7	37
154	Correlations between Density-Based Bond Orders and Orbital-Based Bond Energies for Chemical Bonding Analysis. Journal of Physical Chemistry C, 2019, 123, 2843-2854.	3.1	50
155	Interfacial charge transfer in Pt-loaded TiO2 P25 photocatalysts studied by in-situ diffuse reflectance FTIR spectroscopy of adsorbed CO. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 370, 84-88.	3.9	19
156	Mechanistic Insight into the [4 + 2] Dielsâ€“Alder Cycloaddition over First Row d-Block Cation-Exchanged Faujasites. ACS Catalysis, 2019, 9, 376-391.	11.2	23
157	The effect of oxidation and resulfidation on (Ni/Co)MoS2 hydrodesulfurisation catalysts. Applied Catalysis B: Environmental, 2019, 243, 145-150.	20.2	47
158	CO oxidation by Pd supported on CeO2(100) and CeO2(111) facets. Applied Catalysis B: Environmental, 2019, 243, 36-46.	20.2	231
159	A Linear Scaling Relation for CO Oxidation on CeO₂-Supported Pd. Journal of the American Chemical Society, 2018, 140, 4580-4587.	13.7	126
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