Siglinda Perathoner

List of Publications by Year
in descending order

316 papers	19,295 citations	13865 67 h-index	15732 125 g-index
377 all docs	377 docs citations	377 times ranked	18267 citing authors

#	Article	IF	Citations
1	Opportunities and prospects in the chemical recycling of carbon dioxide to fuels. Catalysis Today, 2009, 148, 191-205.	4.4	1,224
2	Nanocarbons for the Development of Advanced Catalysts. Chemical Reviews, 2013, 113, 5782-5816.	47.7	1,163
3	Catalysis for CO2 conversion: a key technology for rapid introduction of renewable energy in the value chain of chemical industries. Energy and Environmental Science, 2013, 6, 1711.	30.8	1,011
4	Carbon Dioxide Recycling: Emerging Largeâ€Scale Technologies with Industrial Potential. ChemSusChem, 2011, 4, 1194-1215.	6.8	520
5	Electrocatalytic Synthesis of Ammonia at Room Temperature and Atmospheric Pressure from Water and Nitrogen on a Carbonâ€Nanotubeâ€Based Electrocatalyst. Angewandte Chemie - International Edition, 2017, 56, 2699-2703.	13.8	516
6	Nature of active species in copper-based catalysts and their chemistry of transformation of nitrogen oxides. Applied Catalysis A: General, 1995, 132, 179-259.	4.3	409
7	Physicochemical characterization of V-silicalite. The Journal of Physical Chemistry, 1992, 96, 2617-2629.	2.9	351
8	Catalysis by layered materials: A review. Microporous and Mesoporous Materials, 2008, 107, 3-15.	4.4	348
9	Catalytic wet oxidation with H2O2 of carboxylic acids on homogeneous and heterogeneous Fenton-type catalysts. Catalysis Today, 2000, 55, 61-69.	4.4	287
10	Towards Solar Fuels from Water and CO₂. ChemSusChem, 2010, 3, 195-208.	6.8	271
11	ANTENNA EFFECT IN LUMINESCENT LANTHANIDE CRYPTATES: A PHOTOPHYSICAL STUDY. Photochemistry and Photobiology, 1990, 52, 299-306.	2.5	248
12	Towards Artificial Leaves for Solar Hydrogen and Fuels from Carbon Dioxide. ChemSusChem, 2012, 5, 500-521.	6.8	203
13	CO₂ Recycling: A Key Strategy to Introduce Green Energy in the Chemical Production Chain. ChemSusChem, 2014, 7, 1274-1282.	6.8	196
14	Catalysis for biomass and CO₂use through solar energy: opening new scenarios for a sustainable and low-carbon chemical production. Chemical Society Reviews, 2014, 43, 7562-7580.	38.1	189
15	Environmental catalysis: trends and outlook. Catalysis Today, 2002, 75, 3-15.	4.4	188
16	Electrocatalytic conversion of CO2 to long carbon-chain hydrocarbons. Green Chemistry, 2007, 9, 671.	9.0	186
17	Operando spectroscopy study of the carbon dioxide electro-reduction by iron species on nitrogen-doped carbon. Nature Communications, 2018, 9, 935.	12.8	182
18	Catalysis and sustainable (green) chemistry. Catalysis Today, 2003, 77, 287-297.	4.4	171

#	Article	IF	Citations
19	Etherification of 5-hydroxymethyl-2-furfural (HMF) with ethanol to biodiesel components using mesoporous solid acidic catalysts. Catalysis Today, 2011, 175, 435-441.	4.4	170
20	Adsorption and Reactivity of No on Copper-on-Alumina Catalysts. Journal of Catalysis, 1995, 152, 75-92.	6.2	161
21	Synthesis of solar fuels by a novel photoelectrocatalytic approach. Energy and Environmental Science, 2010, 3, 292.	30.8	159
22	Room-Temperature Electrocatalytic Synthesis of NH₃ from H₂O and N₂ in a Gasâ€“Liquidâ€“Solid Three-Phase Reactor. ACS Sustainable Chemistry and Engineering, 2017, 5, 7393-7400.	6.7	158
23	Role of CuO in the modification of the photocatalytic water splitting behavior of TiO2 nanotube thin films. Applied Catalysis B: Environmental, 2018, 224, 136-145.	20.2	149
24	CO₂utilization: an enabling element to move to a resource- and energy-efficient chemical and fuel production. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140177.	3.4	145
25	Luminescence Probes: The Eu3âŠ• and Tb3âŠ•Cryptates of Polypyridine Macrobicyclic Ligands. Angewandte Chemie International Edition in English, 1987, 26, 1266-1267.	4.4	143
26	Wet hydrogen peroxide catalytic oxidation (WHPCO) of organic waste in agro-food and industrial streams. Topics in Catalysis, 2005, 33, 207-224.	2.8	143
27	The Role of Nanostructure in Improving the Performance of Electrodes for Energy Storage and Conversion. European Journal of Inorganic Chemistry, 2009, 2009, 3851-3878.	2.0	142
28	Use of palladium based catalysts in the hydrogenation of nitrates in drinking water: from powders to membranes. Catalysis Today, 2000, 55, 139-149.	4.4	136
29	Synthesis, Characterization, and Activity Pattern of Niâ€“Al Hydrotalcite Catalysts in CO₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 8299-8308.	3.7	133
30	Catalysis by hybrid sp²/sp³nanodiamonds and their role in the design of advanced nanocarbon materials. Chemical Society Reviews, 2018, 47, 8438-8473.	38.1	130
31	Catalytic decomposition of N2O over noble and transition metal containing oxides and zeolites. Role of some variables on reactivity. Catalysis Today, 1997, 35, 113-120.	4.4	127
32	Mechanism of Câ€“C bond formation in the electrocatalytic reduction of CO₂ to acetic acid. A challenging reaction to use renewable energy with chemistry. Green Chemistry, 2017, 19, 2406-2415.	9.0	125
33	Nature and mechanism of formation of sulfate species on copper/alumina sorbent-catalysts for sulfur dioxide removal. The Journal of Physical Chemistry, 1991, 95, 4051-4058.	2.9	121
34	CO₂â€based energy vectors for the storage of solar energy. , 2011, 1, 21-35.		118
35	Catalytic Performance of Î³-Al₂O₃â€“ZrO₂â€“TiO₂â€“CeO₂ Composite Oxide Supported Ni-Based Catalysts for CO₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 4451-4460.	3.7	117
36	Vî—¸Sb-oxide catalysts for the ammoxidation of propane. Applied Catalysis A: General, 1997, 157, 143-172.	4.3	116

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37	Fe and Pt carbon nanotubes for the electrocatalytic conversion of carbon dioxide to oxygenates. Catalysis Today, 2009, 143, 57-63.	4.4	107
38	Can We Afford to Waste Carbon Dioxide? Carbon Dioxide as a Valuable Source of Carbon for the Production of Light Olefins. ChemSusChem, 2011, 4, 1265-1273.	6.8	107
39	Analysis of the alternative routes in the catalytic transformation of lignocellulosic materials. Catalysis Today, 2011, 167, 14-30.	4.4	107
40	Use of mesoporous SBA-15 for nanostructuring titania for photocatalytic applications. Microporous and Mesoporous Materials, 2006, 90, 347-361.	4.4	103
41	Homogeneous versus heterogeneous catalytic reactions to eliminate organics from waste water using H2O2. Topics in Catalysis, 2006, 40, 207-219.	2.8	103
42	Copper- and iron-pillared clay catalysts for the WHPCO of model and real wastewater streams from olive oil milling production. Applied Catalysis B: Environmental, 2007, 70, 437-446.	20.2	103
43	Catalysis: Role and Challenges for a Sustainable Energy. Topics in Catalysis, 2009, 52, 948-961.	2.8	103
44	Electrocatalytic conversion of CO2 to liquid fuels using nanocarbon-based electrodes. Journal of Energy Chemistry, 2013, 22, 202-213.	12.9	102
45	Combined DeSOx/DeNOx reactions on a copper on alumina sorbent-catalyst. 1. Mechanism of sulfur dioxide oxidation-adsorption. Industrial & Engineering Chemistry Research, 1992, 31, 1947-1955.	3.7	100
46	Electrocatalytic Synthesis of Ammonia at Room Temperature and Atmospheric Pressure from Water and Nitrogen on a Carbonâ€Nanotubeâ€Based Electrocatalyst. Angewandte Chemie, 2017, 129, 2743-2747.	2.0	98
47	Remediation of water contamination using catalytic technologies. Applied Catalysis B: Environmental, 2003, 41, 15-29.	20.2	96
48	Novel catalysts and catalytic technologies for N2O removal from industrial emissions containing O2, H2O and SO2. Journal of Environmental Management, 2000, 4, 325-338.	1.7	91
49	Problems and perspectives in nanostructured carbon-based electrodes for clean and sustainable energy. Catalysis Today, 2010, 150, 151-162.	4.4	88
50	Direct conversion of cellulose to glucose and valuable intermediates in mild reaction conditions over solid acid catalysts. Catalysis Today, 2012, 179, 178-184.	4.4	88
51	Pd Supported on Carbon Nitride Boosts the Direct Hydrogen Peroxide Synthesis. ACS Catalysis, 2016, 6, 6959-6966.	11.2	88
52	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. Advanced Materials, 2019, 31, e1801712.	21.0	88
53	Pd nanoparticles supported on N-doped nanocarbon for the direct synthesis of H2O2 from H2 and O2. Catalysis Today, 2010, 157, 280-285.	4.4	87
54	Hydrotalcite based Niâ€"Fe/(Mg, Al)O_x catalysts for CO₂ methanation â€" tailoring Fe content for improved CO dissociation, basicity, and particle size. Catalysis Science and Technology, 2018, 8, 1016-1027.	4.1	87

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55	Carbon Nanotubes for Sustainable Energy Applications. ChemSusChem, 2011, 4, 913-925.	6.8	86
56	Creating and mastering nano-objects to design advanced catalytic materials. Coordination Chemistry Reviews, 2011, 255, 1480-1498.	18.8	85
57	Direct synthesis of H2O2 on monometallic and bimetallic catalytic membranes using methanol as reaction medium. Journal of Catalysis, 2006, 237, 213-219.	6.2	83
58	Preparation, performances and reaction mechanism for the synthesis of H2O2 from H2 and O2 based on palladium membranes. Catalysis Today, 2005, 104, 323-328.	4.4	82
59	Waste-to-methanol: Process and economics assessment. Bioresource Technology, 2017, 243, 611-619.	9.6	82
60	Electrocatalytic conversion of CO2 on carbon nanotube-based electrodes for producing solar fuels. Journal of Catalysis, 2013, 308, 237-249.	6.2	80
61	Beyond Solar Fuels: Renewable Energyâ€Driven Chemistry. ChemSusChem, 2017, 10, 4409-4419.	6.8	79
62	Dynamics of Palladium on Nanocarbon in the Direct Synthesis of H₂O₂. ChemSusChem, 2014, 7, 179-194.	6.8	78
63	Nanostructured catalysts for NO x storageâ€“reduction and N 2 O decomposition. Journal of Catalysis, 2003, 216, 443-454.	6.2	77
64	CO 2 methanation over Ni catalysts based on ternary and quaternary mixed oxide: A comparison and analysis of the structure-activity relationships. Catalysis Today, 2018, 304, 181-189.	4.4	73
65	The role of acid sites induced by defects in the etherification of HMF on Silicalite-1 catalysts. Journal of Catalysis, 2015, 330, 558-568.	6.2	72
66	One-step H2O2 and phenol syntheses: Examples of challenges for new sustainable selective oxidation processesâ˜†. Catalysis Today, 2009, 143, 145-150.	4.4	71
67	Grand challenges for catalysis in the Science and Technology Roadmap on Catalysis for Europe: moving ahead for a sustainable future. Catalysis Science and Technology, 2017, 7, 5182-5194.	4.1	71
68	H2 production by selective photo-dehydrogenation of ethanol in gas and liquid phase on CuOx/TiO2 nanocomposites. RSC Advances, 2013, 3, 21776.	3.6	70
69	Electrolyte-less design of PEC cells for solar fuels: Prospects and open issues in the development of cells and related catalytic electrodes. Catalysis Today, 2016, 259, 246-258.	4.4	70
70	CO2 methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. Fuel, 2018, 225, 230-242.	6.4	69
71	Disruptive catalysis by zeolites. Catalysis Science and Technology, 2016, 6, 2485-2501.	4.1	68
72	Effect of the support properties on the preparation and performance of platinum catalysts supported on carbon nanofibers. Journal of Power Sources, 2009, 192, 144-150.	7.8	67

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73	Synthesis and performance of platinum supported on ordered mesoporous carbons as catalyst for PEM fuel cells: Effect of the surface chemistry of the support. International Journal of Hydrogen Energy, 2011, 36, 9805-9814.	7.1	66
74	Heterogeneous Catalytic Reactions with CO2: Status and Perspectives. Studies in Surface Science and Catalysis, 2004, 153, 1-8.	1.5	64
75	Luminescence processes in [Tb.cntnd.bpy.bpy.bpy]3+ cryptate: a low-temperature solid-state study. The Journal of Physical Chemistry, 1988, 92, 2419-2422.	2.9	62
76	Modification of the surface reactivity of vanadium antimonate catalysts during catalytic propane ammoxidation. Applied Catalysis A: General, 1995, 124, 317-337.	4.3	61
77	Reduction of greenhouse gas emissions by catalytic processes. Applied Catalysis B: Environmental, 2003, 41, 143-155.	20.2	60
78	Electrocatalytic performances of nanostructured platinumâ€“carbon materials. Catalysis Today, 2005, 102-103, 50-57.	4.4	59
79	The role of oxide location in HMF etherification with ethanol over sulfated ZrO2 supported on SBA-15. Journal of Catalysis, 2015, 323, 19-32.	6.2	59
80	Electrocatalytic conversion of CO₂ to produce solar fuels in electrolyte or electrolyte-less configurations of PEC cells. Faraday Discussions, 2015, 183, 125-145.	3.2	59
81	Catalytic behavior and nature of active sites in copper-on-zirconia catalysts for the decomposition of N2O. Catalysis Today, 1996, 27, 265-270.	4.4	58
82	Role of Surface Hydration State on the Nature and Reactivity of Copper Ions in Cu-ZrO2Catalysts: N2O Decomposition. Journal of Catalysis, 1998, 179, 111-128.	6.2	58
83	Removal of N2O from Industrial Gaseous Streams by Selective Adsorption over Metal-Exchanged Zeolites. Industrial & Engineering Chemistry Research, 2000, 39, 131-137.	3.7	57
84	Chemistry and energy beyond fossil fuels. A perspective view on the role of syngas from waste sources. Catalysis Today, 2020, 342, 4-12.	4.4	57
85	Photophysics of Ce3+ cryptates. Inorganica Chimica Acta, 1987, 133, 167-173.	2.4	56
86	Tubular Inorganic catalytic membrane reactors: advantages and performance in multiphase hydrogenation reactions. Catalysis Today, 2003, 79-80, 139-149.	4.4	54
87	Palladium-modified catalytic membranes for the direct synthesis of HO: preparation and performance in aqueous solution. Journal of Catalysis, 2005, 235, 241-248.	6.2	54
88	Wasteâ€toâ€Chemicals for a Circular Economy: The Case of Urea Production (Wasteâ€toâ€Urea). ChemSusChem, 2017, 10, 912-920.	6.8	54
89	CO2 Methanation: Principles and Challenges. Studies in Surface Science and Catalysis, 2019, , 85-103.	1.5	54
90	Role of the support and of adsorbed species on the behavior of Cu-based catalysts for No conversion. Catalysis Today, 1993, 17, 159-166.	4.4	53

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91	Turning Perspective in Photoelectrocatalytic Cells for Solar Fuels. ChemSusChem, 2016, 9, 345-357.	6.8	53
92	Performances of Pd-Me (Me=Ag, Pt) catalysts in the direct synthesis of H2O2 on catalytic membranes. Catalysis Today, 2006, 117, 193-198.	4.4	52
93	The energy-chemistry nexus: A vision of the future from sustainability perspective. Journal of Energy Chemistry, 2015, 24, 535-547.	12.9	52
94	Trading Renewable Energy by using CO₂: An Effective Option to Mitigate Climate Change and Increase the use of Renewable Energy Sources. Energy Technology, 2014, 2, 453-461.	3.8	51
95	Effect of ammonia chemisorption on the surface reactivity of V-Sb-oxide catalysts for propane ammoxidation. Applied Catalysis A: General, 1997, 149, 225-244.	4.3	50
96	Nanostructured electrocatalytic Pt-carbon materials for fuel cells and CO2 conversion. Kinetics and Catalysis, 2007, 48, 877-883.	1.0	50
97	Enhanced formation of >C1 Products in Electroreduction of CO₂ by Adding a CO₂ Adsorption Component to a Gasâ€Diffusion Layerâ€Type Catalytic Electrode. ChemSusChem, 2017, 10, 4442-4446.	6.8	50
98	Effect of the Solvent in Enhancing the Selectivity to Furan Derivatives in the Catalytic Hydrogenation of Furfural. ACS Sustainable Chemistry and Engineering, 2018, 6, 16235-16247.	6.7	50
99	[Eu âŠ‚ bpyÂ·bpyÂ·bpy]+ cryptate: Luminescence and conformation. Chemical Physics Letters, 1988, 146, 347-351.	2.6	49
100	New Insights from Microcalorimetry on the FeOx/CNT-Based Electrocatalysts Active in the Conversion of CO2 to Fuels. ChemSusChem, 2012, 5, 577-586.	6.8	49
101	New Sustainable Model of Biorefineries: Biofactories and Challenges of Integrating Bioâ€•and Solar Refineries. ChemSusChem, 2015, 8, 2854-2866.	6.8	49
102	Role of small Cu nanoparticles in the behaviour of nanocarbon-based electrodes for the electrocatalytic reduction of CO2. Journal of CO2 Utilization, 2017, 21, 534-542.	6.8	49
103	Catalysis for solar-driven chemistry: The role of electrocatalysis. Catalysis Today, 2019, 330, 157-170.	4.4	49
104	Characterization and reactivity of Fe-[Al,B]MFI catalysts for benzene hydroxylation with N2O. Applied Catalysis A: General, 2006, 307, 30-41.	4.3	48
105	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. Journal of Energy Chemistry, 2017, 26, 219-240.	12.9	48
106	Influence of fluoride ions on the absorption and luminescence properties of the [Eu.cntnd.2.2.1]3+ and [Tb.cntnd.2.2.1]3+ cryptates. The Journal of Physical Chemistry, 1987, 91, 6136-6139.	2.9	47
107	Copper-pillared clays (Cu-PILC) for agro-food wastewater purification with H2O2. Microporous and Mesoporous Materials, 2008, 107, 46-57.	4.4	47
108	On the Nature of Selective Palladiumâ€Based Nanoparticles on Nitrogenâ€Doped Carbon Nanotubes for the Direct Synthesis of H₂O₂. ChemCatChem, 2013, 5, 1899-1905.	3.7	47

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109	Evolving scenarios for biorefineries and the impact on catalysis. Catalysis Today, 2014, 234, 2-12.	4.4	47
110	Deactivation mechanism of hydrotalcite-derived Niâ€“AlO_x catalysts during low-temperature CO₂ methanation <i>via</i> Ni-hydroxide formation and the role of Fe in limiting this effect. Catalysis Science and Technology, 2019, 9, 4023-4035.	4.1	47
111	Adsorption and Reactivity of No on Copper-on-Alumina Catalysts. Journal of Catalysis, 1995, 152, 93-102.	6.2	46
112	Wet hydrogen peroxide catalytic oxidation of olive oil mill wastewaters using Cu-zeolite and Cu-pillared clay catalysts. Catalysis Today, 2007, 124, 240-246.	4.4	46
113	Chemical engineering role in the use of renewable energy and alternative carbon sources in chemical production. BMC Chemical Engineering, 2019, 1, .	3.4	46
114	Photoactive titania nanostructured thin films: Synthesis and characteristics of ordered helical nanocoil array. Catalysis Today, 2007, 122, 3-13.	4.4	45
115	Effect of the Structure and Mesoporosity in Ni/Zeolite Catalysts for <i>n</i>â€Hexadecane Hydroisomerisation and Hydrocracking. ChemCatChem, 2017, 9, 1632-1640.	3.7	45
116	Catalysis for <i>e</i>-Chemistry: Need and Gaps for a Future De-Fossilized Chemical Production, with Focus on the Role of Complex (Direct) Syntheses by Electrocatalysis. ACS Catalysis, 2022, 12, 2861-2876.	11.2	44
117	Novel catalyst design for multiphase reactions. Catalysis Today, 2003, 79-80, 3-13.	4.4	43
118	The role of mechanically induced defects in carbon nanotubes to modify the properties of electrodes for PEM fuel cell. Catalysis Today, 2009, 147, 287-299.	4.4	43
119	Photoelectrochemical properties of doped lanthanum orthoferrites. Electrochimica Acta, 2013, 109, 710-715.	5.2	43
120	Low-temperature graphitization of amorphous carbon nanospheres. Chinese Journal of Catalysis, 2014, 35, 869-876.	14.0	43
121	Engineering of photoanodes based on ordered TiO 2 -nanotube arrays in solar photo-electrocatalytic (PECa) cells. Chemical Engineering Journal, 2017, 320, 352-362.	12.7	43
122	Dependence of the catalytic behavior of Vâ€"Sb-oxides in propane ammoxidation to acrylonitrile from the method of preparation. Applied Catalysis A: General, 1997, 165, 273-290.	4.3	42
123	Performances of Fe-[Al, B]MFI catalysts in benzene hydroxylation with N2O. Catalysis Today, 2005, 110, 211-220.	4.4	42
124	Oxide thin films based on ordered arrays of 1D nanostructure. A possible approach toward bridging material gap in catalysis. Physical Chemistry Chemical Physics, 2007, 9, 4930.	2.8	42
125	Isomorphously substituted Fe-ZSM-5 zeolites as catalysts Causes of catalyst ageing as revealed by X-band EPR, MÃ¶ssbauer and 29Si MAS NMR spectra. Applied Catalysis A: General, 2003, 252, 75-90.	4.3	41
126	Functional nano-textured titania-coatings with self-cleaning and antireflective properties for photovoltaic surfaces. Solar Energy, 2016, 125, 227-242.	6.1	41

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127	Waste to Chemicals for a Circular Economy. Chemistry - A European Journal, 2018, 24, 11831-11839.	3.3	41
128	Combined DeSOx/DeNOx reactions on a copper on alumina sorbent-catalyst. 2. Kinetics of the DeSOx reaction. Industrial & Engineering Chemistry Research, 1992, 31, 1956-1963.	3.7	40
129	Reaction pathways of propane and propene conversion in the presence of NO and O2 on Cu/MFI. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 5129.	1.7	40
130	Carbon-based catalysts: Opening new scenario to develop next-generation nano-engineered catalytic materials. Chinese Journal of Catalysis, 2014, 35, 783-791.	14.0	40
131	Oscillating Behavior in N2O Decomposition over Rh Supported on Zirconia-Based Catalysts: The Role of the Reaction Conditions. Journal of Catalysis, 2000, 192, 224-235.	6.2	39
132	Performance of Fe-BEA catalysts for the selective hydroxylation of benzene with N2O. Catalysis Today, 2004, 91-92, 17-26.	4.4	39
133	Applied bias photon-to-current conversion efficiency of ZnO enhanced by hybridization with reduced graphene oxide. Journal of Energy Chemistry, 2017, 26, 302-308.	12.9	39
134	CO₂ Reduction of Hybrid Cu₂Oâ€“Cu/Gas Diffusion Layer Electrodes and their Integration in a Cuâ€based Photoelectrocatalytic Cell. ChemSusChem, 2019, 12, 4274-4284.	6.8	39
135	In situ DRIFT study of the reactivity and reaction mechanism of catalysts based on ironâ€“molybdenum oxides encapsulated in Boralite for the selective oxidation of alkylaromatics. Catalysis Today, 2000, 61, 211-221.	4.4	38
136	In situ activation phenomena of Rh supported on zirconia samples for the catalytic decomposition of N2O. Applied Catalysis A: General, 2000, 194-195, 79-88.	4.3	38
137	Title is missing!. Topics in Catalysis, 2003, 23, 125-136.	2.8	38
138	CO2 capture and reduction to liquid fuels in a novel electrochemical setup by using metal-doped conjugated microporous polymers. Journal of Applied Electrochemistry, 2015, 45, 701-713.	2.9	38
139	Economics of CO2 Utilization: A Critical Analysis. Frontiers in Energy Research, 2020, 8, .	2.3	38
140	Comparison of H + and NH 4 + forms of zeolites as acid catalysts for HMF etherification. Catalysis Today, 2018, 304, 97-102.	4.4	36
141	Tuning the Chemical Properties of Coâ€“Ti₃C₂T<i>_x</i> MXene Materials for Catalytic CO₂ Reduction. Small, 2021, 17, e2007509.	10.0	35
142	High-Throughput Screening of Heterogeneous Catalysts for the Conversion of Furfural to Bio-Based Fuel Components. Catalysts, 2015, 5, 2244-2257.	3.5	34
143	Looking at the Future of Chemical Production through the European Roadmap on Science and Technology of Catalysis the EU Effort for a Longâ€term Vision. ChemCatChem, 2017, 9, 904-909.	3.7	34
144	Combined DeSOx/DeNOx reactions on a copper on alumina sorbent-catalyst. 3. DeNOx behavior as a function of the surface coverage with sulfate species. Industrial & Engineering Chemistry Research, 1992, 31, 1963-1970.	3.7	33

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145	Direct <i>versus</i> acetalization routes in the reaction network of catalytic HMF etherification. Catalysis Science and Technology, 2018, 8, 1304-1313.	4.1	33
146	The Role of Ammonia Adspecies on the Pathways of Catalytic Transformation at Mixed Metal Oxide Surfaces. Catalysis Reviews - Science and Engineering, 1998, 40, 175-208.	12.9	32
147	The issue of selectivity in the direct synthesis of H2O2 from H2 and O2: the role of the catalyst in relation to the kinetics of reaction. Topics in Catalysis, 2006, 38, 181-193.	2.8	32
148	Synthesis of TiO2 Thin Films: Relationship Between Preparation Conditions and Nanostructure. Topics in Catalysis, 2008, 50, 133-144.	2.8	32
149	Current density in solar fuel technologies. Energy and Environmental Science, 2021, 14, 5760-5787.	30.8	32
150	Acrylonitrile from Propane on (VO)2P2O7 with Preadsorbed Ammonia. Journal of Catalysis, 1993, 142, 84-96.	6.2	31
151	On the nature of the active sites in the selective oxidative esterification of furfural on Au/ZrO 2 catalysts. Catalysis Today, 2016, 278, 56-65.	4.4	31
152	Photoactive materials based on semiconducting nanocarbons â€“ A challenge opening new possibilities for photocatalysis. Journal of Energy Chemistry, 2017, 26, 207-218.	12.9	31
153	Highly selective bifunctional Ni zeo-type catalysts for hydroprocessing of methyl palmitate to green diesel. Catalysis Today, 2020, 345, 14-21.	4.4	31
154	Enhanced performance in the direct electrocatalytic synthesis of ammonia from N2 and H2O by an in-situ electrochemical activation of CNT-supported iron oxide nanoparticles. Journal of Energy Chemistry, 2020, 49, 22-32.	12.9	31
155	A novel gas flow-through photocatalytic reactor based on copper-functionalized nanomembranes for the photoreduction of CO2 to C1-C2 carboxylic acids and C1-C3 alcohols. Chemical Engineering Journal, 2021, 408, 127250.	12.7	31
156	Role of the nature of copper sites in the activity of copper-based catalysts for no conversion. Research on Chemical Intermediates, 1992, 17, 125-135.	2.7	30
157	Carbon growth evidences as a result of benzene pyrolysis. Carbon, 2013, 59, 296-307.	10.3	30
158	Nanocarbons: Opening New Possibilities for Nano-engineered Novel Catalysts and Catalytic Electrodes. Catalysis Surveys From Asia, 2014, 18, 149-163.	2.6	30
159	High performance of Au/ZTC based catalysts for the selective oxidation of bio-derivative furfural to 2-furoic acid. Catalysis Communications, 2021, 149, 106234.	3.3	30
160	Catalysts based on pillared interlayered clays for the selective catalytic reduction of NO. Clay Minerals, 1997, 32, 123-134.	0.6	29
161	Catalysis, a driver for sustainability and societal challenges. Catalysis Today, 2008, 138, 69-76.	4.4	29
162	Highly Efficient Metal-Free Nitrogen-Doped Nanocarbons with Unexpected Active Sites for Aerobic Catalytic Reactions. ACS Nano, 2019, 13, 13995-14004.	14.6	29

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163	Elucidating the mechanism of the CO₂ methanation reaction over Niâ€“Fe hydrotalcite-derived catalysts <i>via</i> surface-sensitive <i>in situ</i> XPS and NEXAFS. Physical Chemistry Chemical Physics, 2020, 22, 18788-18797.	2.8	29
164	Reuse of CO₂ in energy intensive process industries. Chemical Communications, 2021, 57, 10967-10982.	4.1	29
165	Performances of SOx traps derived from Cu/Al hydrotalcite for the protection of NOx traps from the deactivation by sulphur. Applied Catalysis B: Environmental, 2007, 70, 172-178.	20.2	28
166	Analysis of the factors controlling performances of Au-modified TiO 2 nanotube array based photoanode in photo-electrocatalytic (PECa) cells. Journal of Energy Chemistry, 2017, 26, 284-294.	12.9	28
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