Siglinda Perathoner

List of Publications by Year
in descending order

254 papers	16,194 citations	15720 60 h-index	14131 120 g-index
271 all docs	271 docs citations	271 times ranked	16779 citing authors

#	Article	IF	Citations
1	Develop High-Performance Cu-Based RWGS Catalysts by Controlling Oxideâ€“Oxide Interface. ACS Catalysis, 2025, 15, 3475-3486.	12.7	0
2	Making chemicals from the air: the new frontier for hybrid electrosyntheses in artificial tree-like devices. Green Chemistry, 2024, 26, 15-41.	9.3	9
3	High-dispersed CeOx species on mesopores silica to accelerate Ni-catalysed CO2 methanation at low temperatures. Chemical Engineering Journal, 2024, 479, 147453.	11.9	10
4	Nanostructure-performance relationships in titania-only electrodes for the selective electrocatalytic hydrogenation of oxalic acid. Journal of Catalysis, 2024, 429, 115277.	6.5	4
5	Oxygen vacancy-dependent chemical intermediates on Ru/MnO catalysts dictate the selectivity of CO2 reduction. Applied Catalysis B: Environmental, 2024, 352, 124010.	20.3	7
6	Catalysis for Carbonâ€€Circularity: Emerging Concepts and Role of Inorganic Chemistry. ChemSusChem, 2024, 17, .	6.3	3
7	High photocatalytic yield in the non-oxidative coupling of methane using a Pdâ€“TiO₂ nanomembrane gas flow-through reactor. EES Catalysis, 2024, 2, 1164-1175.	7.4	1
8	X-ray Characterizations of Exfoliated MoS2 Produced by Microwave-Assisted Liquid-Phase Exfoliation. Materials, 2024, 17, 3887.	2.9	1
9	Advanced (photo)electrocatalytic approaches to substitute the use of fossil fuels in chemical production. Chemical Communications, 2023, 59, 3005-3023.	4.2	27
10	Interfacial Chemistry in the Electrocatalytic Hydrogenation of CO₂ over C-Supported Cu-Based Systems. ACS Catalysis, 2023, 13, 5876-5895.	12.7	7
11	An artificial leaf device built with earth-abundant materials for combined H₂ production and storage as formate with efficiency > 10%. Energy and Environmental Science, 2023, 16, 1644-1661.	30.6	18
12	Hydrothermal Synthesis and Catalytic Assessment of High-Silica (B,Fe)-beta Zeolites. Crystal Growth and Design, 2023, 23, 2988-3001.	3.5	2
13	Understanding the complexity in bridging thermal and electrocatalytic methanation of CO₂. Chemical Society Reviews, 2023, 52, 3627-3662.	38.2	37
14	Exploring the hydrogenation of furfural in the liquid phase by high-throughput screening of commercial catalysts: Effects of temperature, solvents, and promoters on the production of 2-methylfuran. Chemical Engineering Research and Design, 2023, 197, 968-983.	6.3	2
15	Generation of oxide surface patches promoting H-spillover in Ru/(TiOx)MnO catalysts enables CO2 reduction to CO. Nature Catalysis, 2023, 6, 1062-1072.	27.4	63
16	Redesign chemical processes to substitute the use of fossil fuels: A viewpoint of the implications on catalysis. Catalysis Today, 2022, 387, 216-223.	4.7	27
17	Hydrogenation of dimethyl oxalate to ethylene glycol on Cu/SiO2 catalysts prepared by a deposition-decomposition method: Optimization of the operating conditions and pre-reduction procedure. Catalysis Today, 2022, 390-391, 343-353.	4.7	11
18	Electrocatalytic production of glycolic acid via oxalic acid reduction on titania debris supported on a TiO2 nanotube array. Journal of Energy Chemistry, 2022, 68, 669-678.	14.2	15

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19	Catalysis for e-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.	12.7	63
20	Transforming catalysis to produce e-fuels: Prospects and gaps. Chinese Journal of Catalysis, 2022, 43, 1194-1203.	15.9	21
21	Assessment of hydrogen production from municipal solid wastes as competitive route to produce low-carbon H2. Science of the Total Environment, 2022, 827, 154393.	8.4	19
22	Dynamics at Polarized Carbon Dioxideâ€“Iron Oxyhydroxide Interfaces Unveil the Origin of Multicarbon Product Formation. ACS Catalysis, 2022, 12, 411-430.	12.7	24
23	Catalytic Technologies for the Conversion and Reuse of CO2. , 2022, , 1803-1852.		4
24	Reduction of Non-CO2 Greenhouse Gas Emissions by Catalytic Processes. , 2022, , 1759-1802.		4
25	Status and gaps toward fossil-free sustainable chemical production. Green Chemistry, 2022, 24, 7305-7331.	9.3	37
26	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.	11.9	39
27	High performance of Au/ZTC based catalysts for the selective oxidation of bio-derivative furfural to 2-furoic acid. Catalysis Communications, 2021, 149, 106234.	4.4	34
28	Reuse of CO₂ in energy intensive process industries. Chemical Communications, 2021, 57, 10967-10982.	4.2	41
29	Reduction of Non-CO2 Greenhouse Gas Emissions by Catalytic Processes. , 2021, , 1-44.		0
30	Peptide Gelators to Template Inorganic Nanoparticle Formation. Gels, 2021, 7, 14.	4.9	22
31	Nanocarbon for Energy Material Applications: N₂ Reduction Reaction. Small, 2021, 17, .	11.6	29
32	Green Approaches to Carbon Nanostructure-Based Biomaterials. Applied Sciences (Switzerland), 2021, 11, 2490.	2.6	33
33	Role of nanostructure in the behaviour of BiVO4â€“TiO2 nanotube photoanodes for solar water splitting in relation to operational conditions. Solar Energy Materials and Solar Cells, 2021, 223, 110980.	6.2	7
34	Tuning the Chemical Properties of Coâ€“Ti₃C₂T_x MXene Materials for Catalytic CO₂ Reduction. Small, 2021, 17, .	11.6	57
35	Carbon Nanostructures Decorated with Titania: Morphological Control and Applications. Applied Sciences (Switzerland), 2021, 11, 6814.	2.6	7
36	Catalytic Technologies for the Conversion and Reuse of CO2. , 2021, , 1-50.		0

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37	Comparing Molecular Mechanisms in Solar NH3 Production and Relations with CO2 Reduction. International Journal of Molecular Sciences, 2021, 22, 139.	4.5	12
38	Current density in solar fuel technologies. Energy and Environmental Science, 2021, 14, 5760-5787.	30.6	43
39	Plasma assisted CO2 splitting to carbon and oxygen: A concept review analysis. Journal of CO2 Utilization, 2021, 54, 101775.	8.0	22
40	Chemistry and energy beyond fossil fuels. A perspective view on the role of syngas from waste sources. Catalysis Today, 2020, 342, 4-12.	4.7	73
41	Electrocatalytic reduction of CO2 over dendritic-type Cu- and Fe-based electrodes prepared by electrodeposition. Journal of CO2 Utilization, 2020, 35, 194-204.	8.0	23
42	Artificial leaves using sunlight to produce fuels. Studies in Surface Science and Catalysis, 2020, , 415-430.	0.0	4
43	Highly selective bifunctional Ni zeo-type catalysts for hydroprocessing of methyl palmitate to green diesel. Catalysis Today, 2020, 345, 14-21.	4.7	32
44	Enhancing N₂ Fixation Activity by Converting Ti₃C₂ MXenes Nanosheets to Nanoribbons. ChemSusChem, 2020, 13, 5614-5619.	6.3	33
45	Creation of N-C=O active groups on N-doped CNT as an efficient CarboCatalyst for solvent-free aerobic coupling of benzylamine. Carbon, 2020, 170, 338-346.	10.4	31
46	Economics of CO2 Utilization: A Critical Analysis. Frontiers in Energy Research, 2020, 8, .	2.3	51
47	Direct Synthesis of Ammonia from N₂ and H₂O on Different Iron Species Supported on Carbon Nanotubes using a Gasâ€Phase Electrocatalytic Flow Reactor. ChemElectroChem, 2020, 7, 3028-3037.	3.0	13
48	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.	14.2	34
49	Elucidating the mechanism of the CO₂ methanation reaction over Niâ€“Fe hydrotalcite-derived catalysts via surface-sensitive in situ XPS and NEXAFS. Physical Chemistry Chemical Physics, 2020, 22, 18788-18797.	2.8	32
50	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. Advanced Materials, 2019, 31, .	24.7	98
51	Etherification of HMF to biodiesel additives: The role of NH4+ confinement in Beta zeolites. Journal of Energy Chemistry, 2019, 36, 114-121.	14.2	15
52	Deactivation mechanism of hydrotalcite-derived Niâ€“AlO_x catalysts during low-temperature CO₂ methanation via Ni-hydroxide formation and the role of Fe in limiting this effect. Catalysis Science and Technology, 2019, 9, 4023-4035.	4.0	50
53	CO₂ Reduction of Hybrid Cu₂Oâ€“Cu/Gas Diffusion Layer Electrodes and their Integration in a Cuâ€based Photoelectrocatalytic Cell. ChemSusChem, 2019, 12, 4274-4284.	6.3	40
54	Reassembly mechanism in Fe-Silicalite during NH4OH post-treatment and relation with the acidity and catalytic reactivity. Applied Catalysis A: General, 2019, 580, 186-196.	4.5	23

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55	Unconventional Pathways for Designing Silica-Supported Pt and Pd Catalysts With Hierarchical Porosity. Studies in Surface Science and Catalysis, 2019, , 377-397.	0.0	6
56	Turning carbon dioxide into fuel concomitantly to the photoanode-driven process of organic pollutant degradation by photoelectrocatalysis. Electrochimica Acta, 2019, 306, 277-284.	5.4	24
57	Production of Solar Fuels Using CO2. Studies in Surface Science and Catalysis, 2019, , 7-30.	0.0	13
58	Electrochemical Dinitrogen Activation: To Find a Sustainable Way to Produce Ammonia. Studies in Surface Science and Catalysis, 2019, , 31-46.	0.0	23
59	Chemical engineering role in the use of renewable energy and alternative carbon sources in chemical production. BMC Chemical Engineering, 2019, 1, .	7.0	53
60	CO2 Methanation: Principles and Challenges. Studies in Surface Science and Catalysis, 2019, , 85-103.	0.0	71
61	Highly Efficient Metal-Free Nitrogen-Doped Nanocarbons with Unexpected Active Sites for Aerobic Catalytic Reactions. ACS Nano, 2019, 13, 13995-14004.	15.4	33
62	Direct Synthesis of H₂O₂ on Pd Based Catalysts: Modelling the Particle Size Effects and the Promoting Role of Polyvinyl Alcohol. ChemCatChem, 2019, 11, 550-559.	3.6	12
63	Catalysis for solar-driven chemistry: The role of electrocatalysis. Catalysis Today, 2019, 330, 157-170.	4.7	58
64	Operando spectroscopy study of the carbon dioxide electro-reduction by iron species on nitrogen-doped carbon. Nature Communications, 2018, 9, .	14.1	208
65	CO2 methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. Fuel, 2018, 225, 230-242.	7.6	74
66	Water splitting on 3D-type meso/macro porous structured photoanodes based on Ti mesh. Solar Energy Materials and Solar Cells, 2018, 178, 98-105.	6.2	26
67	Enhanced Catalytic Activity of Ironâ€Promoted Nickel on Î³â€Al₂O₃ Nanosheets for Carbon Dioxide Methanation. Energy Technology, 2018, 6, 1196-1207.	3.4	25
68	Hierarchically porous Pd/SiO2 catalyst by combination of miniemulsion polymerisation and sol-gel method for the direct synthesis of H2O2. Catalysis Today, 2018, 306, 16-22.	4.7	18
69	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.	20.3	157
70	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.	4.7	81
71	Comparison of H + and NH 4 + forms of zeolites as acid catalysts for HMF etherification. Catalysis Today, 2018, 304, 97-102.	4.7	40
72	Engineering of silica-supported platinum catalysts with hierarchical porosity combining latex synthesis, sonochemistry and sol-gel process â€“ II. Catalytic performance. Microporous and Mesoporous Materials, 2018, 256, 227-234.	4.7	10

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73	Catalysis by hybrid sp²/sp³nanodiamonds and their role in the design of advanced nanocarbon materials. Chemical Society Reviews, 2018, 47, 8438-8473.	38.2	146
74	Advanced Nanocarbon Materials for Future Energy Applications. , 2018, , 305-325.		9
75	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.	7.0	53
76	Waste to Chemicals for a Circular Economy. Chemistry - A European Journal, 2018, 24, 11831-11839.	3.5	49
77	Hierarchical Porosity Tailoring of Solâ€“Gel Derived Pt/SiO2 Catalysts. Topics in Catalysis, 2018, 61, 1424-1436.	2.6	2
78	Photoactive materials based on semiconducting nanocarbons â€“ A challenge opening new possibilities for photocatalysis. Journal of Energy Chemistry, 2017, 26, 207-218.	14.2	34
79	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.	1.5	99
80	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.	15.0	549
81	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.	3.6	35
82	Effect of the Structure and Mesoporosity in Ni/Zeolite Catalysts for nâ€Hexadecane Hydroisomerisation and Hydrocracking. ChemCatChem, 2017, 9, 1632-1640.	3.6	52
83	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.	9.3	137
84	Engineering of photoanodes based on ordered TiO 2 -nanotube arrays in solar photo-electrocatalytic (PECa) cells. Chemical Engineering Journal, 2017, 320, 352-362.	11.9	42
85	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. Journal of Energy Chemistry, 2017, 26, 219-240.	14.2	51
86	Wasteâ€toâ€Chemicals for a Circular Economy: The Case of Urea Production (Wasteâ€toâ€Urea). ChemSusChem, 2017, 10, 912-920.	6.3	61
87	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.	6.3	55
88	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.	8.0	55
89	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.	4.0	85
90	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.	7.0	164

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91	Beyond Solar Fuels: Renewable Energyâ€Driven Chemistry. ChemSusChem, 2017, 10, 4409-4419.	6.3	89
92	Nanocatalysis: A Key Role for Sustainable Energy Future. , 2017, , 383-400.		1
93	Waste-to-methanol: Process and economics assessment. Bioresource Technology, 2017, 243, 611-619.	10.0	94
94	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.	14.2	29
95	Applied bias photon-to-current conversion efficiency of ZnO enhanced by hybridization with reduced graphene oxide. Journal of Energy Chemistry, 2017, 26, 302-308.	14.2	44
96	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2017, , 2827-2880.		0
97	Catalyst Needs and Perspective for Integrating Biorefineries within the Refinery Value Chain. , 2017, , 375-396.		0
98	Preface. Catalysis Today, 2016, 278, 1-2.	4.7	0
99	Carbon microspheres preparation, graphitization and surface functionalization for glycerol etherification. Catalysis Today, 2016, 277, 68-77.	4.7	26
100	Nanoscale Engineering in the Development of Photoelectrocatalytic Cells for Producing Solar Fuels. Topics in Catalysis, 2016, 59, 757-771.	2.6	24
101	Influence of Zeolite Protective Overlayer on the Performances of Pd Thin Film Membrane on Tubular Asymmetric Alumina Supports. Industrial & Engineering Chemistry Research, 2016, 55, 4948-4959.	4.0	19
102	Pd Supported on Carbon Nitride Boosts the Direct Hydrogen Peroxide Synthesis. ACS Catalysis, 2016, 6, 6959-6966.	12.7	100
103	Selected papers from the 6th Czech-Italian-Spanish Conference on Molecular Sieves and Catalysis, Amantea, Italy, from June 14th to 17th 2015. Catalysis Today, 2016, 277, 1.	4.7	0
104	A Vision for Future Biorefineries. , 2016, , 493-518.		1
105	Engineering of silica-supported platinum catalysts with hierarchical porosity combining latex synthesis, sonochemistry and sol-gel process â€“ I. Material preparation. Microporous and Mesoporous Materials, 2016, 234, 207-214.	4.7	11
106	Synthesis, Characterization, and Activity Pattern of Niâ€“Al Hydrotalcite Catalysts in CO₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 8299-8308.	4.0	144
107	Turning Perspective in Photoelectrocatalytic Cells for Solar Fuels. ChemSusChem, 2016, 9, 345-357.	6.3	53
108	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.	4.7	34

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109	Role of size and pretreatment of Pd particles on their behaviour in the direct synthesis of H2O2. Journal of Energy Chemistry, 2016, 25, 297-305.	14.2	15
110	Functional nano-textured titania-coatings with self-cleaning and antireflective properties for photovoltaic surfaces. Solar Energy, 2016, 125, 227-242.	6.6	43
111	HMF etherification using NH₄-exchanged zeolites. New Journal of Chemistry, 2016, 40, 4300-4306.	2.5	20
112	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.	4.0	124
113	Advanced nanostructured titania photoactive materials for sustainable H2 production. Materials Science in Semiconductor Processing, 2016, 42, 115-121.	4.6	18
114	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.	4.7	73
115	Status of Research and Challenges in Converting Natural Gas. , 2015, , 3-49.		0
116	New Sustainable Model of Biorefineries: Biofactories and Challenges of Integrating Bioâ€•and Solar Refineries. ChemSusChem, 2015, 8, 2854-2866.	6.3	48
117	Enhanced Hydrogen Transport over Palladium Ultrathin Films through Surface Nanostructure Engineering. ChemSusChem, 2015, 8, 3805-3814.	6.3	3
118	Onionâ€Like Graphene Carbon Nanospheres as Stable Catalysts for Carbon Monoxide and Methane Chlorination. ChemCatChem, 2015, 7, 3036-3046.	3.6	21
119	High-Throughput Screening of Heterogeneous Catalysts for the Conversion of Furfural to Bio-Based Fuel Components. Catalysts, 2015, 5, 2244-2257.	3.8	42
120	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.	2.5	40
121	Energy-related catalysis. National Science Review, 2015, 2, 143-145.	10.0	13
122	Chemical Energy Conversion as Enabling Factor to Move to a Renewable Energy Economy. Green, 2015, 5, 43-54.	1.0	14
123	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.	2.8	155
124	Use of modified anodization procedures to prepare advanced TiO2 nanostructured catalytic electrodes and thin film materials. Catalysis Today, 2015, 251, 121-131.	4.7	17
125	Monitoring of glucose in fermentation processes by using Au/TiO2 composites as novel modified electrodes. Journal of Applied Electrochemistry, 2015, 45, 943-951.	2.5	14
126	The energy-chemistry nexus: A vision of the future from sustainability perspective. Journal of Energy Chemistry, 2015, 24, 535-547.	14.2	55

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127	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2015, , 1-43.		0
128	Nanocarbons: Opening New Possibilities for Nano-engineered Novel Catalysts and Catalytic Electrodes. Catalysis Surveys From Asia, 2014, 18, 149-163.	1.7	27
129	Advanced Oxidation Processes in Water Treatment. , 2014, , 251-290.		4
130	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.	3.4	48
131	Perspectives and State of the Art in Producing Solar Fuels and Chemicals from CO₂. , 2014, , 1-24.		14
132	16. Advanced photocatalytic materials by nanocarbon hybrid materials. , 2014, , 429-454.		4
133	A gas-phase reactor powered by solar energy and ethanol for H2 production. Applied Thermal Engineering, 2014, 70, 1270-1275.	6.7	28
134	Evolving scenarios for biorefineries and the impact on catalysis. Catalysis Today, 2014, 234, 2-12.	4.7	46
135	A New Scenario for Green & Sustainable Chemical Production. Journal of the Chinese Chemical Society, 2014, 61, 719-730.	1.5	21
136	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.	38.2	191
137	Dynamics of Palladium on Nanocarbon in the Direct Synthesis of H₂O₂. ChemSusChem, 2014, 7, 179-194.	6.3	83
138	CO₂ Recycling: A Key Strategy to Introduce Green Energy in the Chemical Production Chain. ChemSusChem, 2014, 7, 1274-1282.	6.3	208
139	Carbon-based catalysts: Opening new scenario to develop next-generation nano-engineered catalytic materials. Chinese Journal of Catalysis, 2014, 35, 783-791.	15.9	41
140	Low-temperature graphitization of amorphous carbon nanospheres. Chinese Journal of Catalysis, 2014, 35, 869-876.	15.9	47
141	Catalytic Transformation of CO2 to Fuels and Chemicals, with Reference to Biorefineries. , 2013, , 529-555.		9
142	Electrocatalytic conversion of CO2 to liquid fuels using nanocarbon-based electrodes. Journal of Energy Chemistry, 2013, 22, 202-213.	14.2	105
143	Photoelectrochemical properties of doped lanthanum orthoferrites. Electrochimica Acta, 2013, 109, 710-715.	5.4	41
144	Electrocatalytic conversion of CO2 on carbon nanotube-based electrodes for producing solar fuels. Journal of Catalysis, 2013, 308, 237-249.	6.5	81

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145	Preface. Catalysis Today, 2013, 203, 1-2.	4.7	0
146	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.	30.6	1,084
147	Nanocarbons for the Development of Advanced Catalysts. Chemical Reviews, 2013, 113, 5782-5816.	54.6	1,168
148	H2 production by selective photo-dehydrogenation of ethanol in gas and liquid phase on CuOx/TiO2 nanocomposites. RSC Advances, 2013, 3, 21776.	4.5	73
149	New Energy Sources and CO2 Treatment. Issues in Agroecology, 2013, , 143-160.	0.0	3
150	5.1 Photoelectrochemical CO₂ Activation toward Artificial Leaves. , 2012, , 379-400.		3
151	New Insights from Microcalorimetry on the FeO_x/CNTâ€Based Electrocatalysts Active in the Conversion of CO₂ to Fuels. ChemSusChem, 2012, 5, 577-586.	6.3	46
152	Towards Artificial Leaves for Solar Hydrogen and Fuels from Carbon Dioxide. ChemSusChem, 2012, 5, 500-521.	6.3	203
153	Deactivation mechanism of Pd supported on ordered and non-ordered mesoporous silica in the direct H2O2 synthesis using CO2-expanded methanol. Catalysis Today, 2012, 179, 170-177.	4.7	16
154	Catalysis on nano-carbon materials: Going where to?. Catalysis Today, 2012, 186, 1-6.	4.7	46
155	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2012, , 1849-1890.		1
156	Introduction and General Overview. , 2012, , 1-28.		6
157	Anodically Formed TiO₂ Thin Films: Evidence for a Multiparameter Dependent Photocurrent-Structure Relationship. Nanoscience and Nanotechnology Letters, 2012, 4, 142-148.	0.3	23
158	Nanostructured Electrodes and Devices for Converting Carbon Dioxide Back to Fuels: Advances and Perspectives. Green Energy and Technology, 2011, , 561-583.	0.0	6
159	Facing the Energy Challenges through Chemistry in a Changing World. , 2011, , 269-309.		4
160	CO₂â€based energy vectors for the storage of solar energy. , 2011, 1, 21-35.		121
161	Performances of Pd Nanoparticles on Different Supports in the Direct Synthesis of H2O2 in CO2-Expanded Methanol. Topics in Catalysis, 2011, 54, 718-728.	2.6	14
162	Creating and mastering nano-objects to design advanced catalytic materials. Coordination Chemistry Reviews, 2011, 255, 1480-1498.	23.3	85

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163	Carbon Nanotubes for Sustainable Energy Applications. ChemSusChem, 2011, 4, 913-925.	6.3	87
164	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.	6.3	112
165	Carbon Dioxide Recycling: Emerging Largeâ€Scale Technologies with Industrial Potential. ChemSusChem, 2011, 4, 1194-1215.	6.3	543
166	Analysis of the alternative routes in the catalytic transformation of lignocellulosic materials. Catalysis Today, 2011, 167, 14-30.	4.7	102
167	The influence of the nanostructure on the effect of CO2 on the properties of Pdâ€“Ag thin-film for H2 separation. Applied Catalysis A: General, 2011, 391, 158-168.	4.5	5
168	Towards Solar Fuels from Water and CO₂. ChemSusChem, 2010, 3, 195-208.	6.3	272
169	Pdâ€“Ag thin film membrane for H2 separation. Part 2. Carbon and oxygen diffusion in the presence of CO/CO2 in the feed and effect on the H2 permeability. International Journal of Hydrogen Energy, 2010, 35, 5400-5409.	9.2	20
170	Problems and perspectives in nanostructured carbon-based electrodes for clean and sustainable energy. Catalysis Today, 2010, 150, 151-162.	4.7	82
171	Preface. Catalysis Today, 2010, 150, 1.	4.7	2
172	Synthesis of solar fuels by a novel photoelectrocatalytic approach. Energy and Environmental Science, 2010, 3, 292.	30.6	152
173	Catalytic Wastewater Treatment Using Pillared Clays. , 2010, , 167-200.		5
174	Environmental Catalysis over Zeolites. , 2010, , 745-774.		7
175	From Green to Sustainable Industrial Chemistry. , 2009, , 1-72.		27
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