

Siglinda Perathoner

List of Publications by Year in descending order

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316
papers

19,295
citations

13865

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h-index

15732

125
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377
all docs

377
docs citations

377
times ranked

18267
citing authors

#	ARTICLE	IF	CITATIONS
1	Redesign chemical processes to substitute the use of fossil fuels: A viewpoint of the implications on catalysis. <i>Catalysis Today</i> , 2022, 387, 216-223.	4.4	20
2	Hydrogenation of dimethyl oxalate to ethylene glycol on Cu/SiO ₂ catalysts prepared by a deposition-decomposition method: Optimization of the operating conditions and pre-reduction procedure. <i>Catalysis Today</i> , 2022, 390-391, 343-353.	4.4	9
3	Zeolite templated carbon from Beta replica as metal-free electrocatalyst for CO ₂ reduction. <i>Applied Materials Today</i> , 2022, 26, 101383.	4.3	1
4	Electrocatalytic production of glycolic acid via oxalic acid reduction on titania debris supported on a TiO ₂ nanotube array. <i>Journal of Energy Chemistry</i> , 2022, 68, 669-678.	12.9	14
5	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. <i>ACS Catalysis</i> , 2022, 12, 2861-2876.	11.2	44
6	Transforming catalysis to produce e-fuels: Prospects and gaps. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1194-1203.	14.0	15
7	Assessment of hydrogen production from municipal solid wastes as competitive route to produce low-carbon H ₂ . <i>Science of the Total Environment</i> , 2022, 827, 154393.	8.0	11
8	Dynamics at Polarized Carbon Dioxide- ⁶⁶ Iron Oxyhydroxide Interfaces Unveil the Origin of Multicarbon Product Formation. <i>ACS Catalysis</i> , 2022, 12, 411-430.	11.2	19
9	Catalytic Technologies for the Conversion and Reuse of CO ₂ . , 2022, , 1803-1852.		1
10	Reduction of Non-CO ₂ Greenhouse Gas Emissions by Catalytic Processes. , 2022, , 1759-1802.		0
11	Revealing the role of edges in the electrocatalytic synthesis of H ₂ O ₂ over metal-free nanocarbon. <i>Chem Catalysis</i> , 2022, 2, 1251-1253.	6.1	0
12	A novel gas flow-through photocatalytic reactor based on copper-functionalized nanomembranes for the photoreduction of CO ₂ to C1-C2 carboxylic acids and C1-C3 alcohols. <i>Chemical Engineering Journal</i> , 2021, 408, 127250.	12.7	31
13	High performance of Au/ZTC based catalysts for the selective oxidation of bio-derivative furfural to 2-furoic acid. <i>Catalysis Communications</i> , 2021, 149, 106234.	3.3	30
14	Reuse of CO ₂ in energy intensive process industries. <i>Chemical Communications</i> , 2021, 57, 10967-10982.	4.1	29
15	Reduction of Non-CO ₂ Greenhouse Gas Emissions by Catalytic Processes. , 2021, , 1-44.		0
16	Peptide Gelators to Template Inorganic Nanoparticle Formation. <i>Gels</i> , 2021, 7, 14.	4.5	17
17	Nanocarbon for Energy Material Applications: N ₂ Reduction Reaction. <i>Small</i> , 2021, 17, e2007055.	10.0	26
18	Green Approaches to Carbon Nanostructure-Based Biomaterials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2490.	2.5	26

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19	Role of nanostructure in the behaviour of BiVO ₄ @TiO ₂ nanotube photoanodes for solar water splitting in relation to operational conditions. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110980.	6.2	4
20	Tuning the Chemical Properties of Co@Ti ₃ C ₂ T _x MXene Materials for Catalytic CO ₂ Reduction. <i>Small</i> , 2021, 17, e2007509.	10.0	35
21	Supported metallic nanoparticles prepared by an organometallic route to boost the electrocatalytic conversion of CO ₂ . <i>Journal of CO₂ Utilization</i> , 2021, 50, 101613.	6.8	5
22	Carbon Nanostructures Decorated with Titania: Morphological Control and Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6814.	2.5	5
23	Catalytic Technologies for the Conversion and Reuse of CO ₂ . , 2021, , 1-50.		0
24	Comparing Molecular Mechanisms in Solar NH ₃ Production and Relations with CO ₂ Reduction. <i>International Journal of Molecular Sciences</i> , 2021, 22, 139.	4.1	12
25	Current density in solar fuel technologies. <i>Energy and Environmental Science</i> , 2021, 14, 5760-5787.	30.8	32
26	Plasma assisted CO ₂ splitting to carbon and oxygen: A concept review analysis. <i>Journal of CO₂ Utilization</i> , 2021, 54, 101775.	6.8	13
27	Chemistry and energy beyond fossil fuels. A perspective view on the role of syngas from waste sources. <i>Catalysis Today</i> , 2020, 342, 4-12.	4.4	57
28	Electrocatalytic reduction of CO ₂ over dendritic-type Cu- and Fe-based electrodes prepared by electrodeposition. <i>Journal of CO₂ Utilization</i> , 2020, 35, 194-204.	6.8	20
29	Artificial leaves using sunlight to produce fuels. <i>Studies in Surface Science and Catalysis</i> , 2020, 179, 415-430.	1.5	1
30	Highly selective bifunctional Ni zeo-type catalysts for hydroprocessing of methyl palmitate to green diesel. <i>Catalysis Today</i> , 2020, 345, 14-21.	4.4	31
31	Enhancing N ₂ Fixation Activity by Converting Ti ₃ C ₂ MXenes Nanosheets to Nanoribbons. <i>ChemSusChem</i> , 2020, 13, 5614-5619.	6.8	26
32	Creation of N-C=O active groups on N-doped CNT as an efficient CarboCatalyst for solvent-free aerobic coupling of benzylamine. <i>Carbon</i> , 2020, 170, 338-346.	10.3	27
33	Economics of CO ₂ Utilization: A Critical Analysis. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	38
34	Direct Synthesis of Ammonia from N ₂ and H ₂ O on Different Iron Species Supported on Carbon Nanotubes using a Gas-Phase Electrocatalytic Flow Reactor. <i>ChemElectroChem</i> , 2020, 7, 3028-3037.	3.4	12
35	Weakly acidic zeolites: A review on uses and relationship between nature of the active sites and catalytic behaviour. <i>Microporous and Mesoporous Materials</i> , 2020, 300, 110157.	4.4	16
36	Enhanced performance in the direct electrocatalytic synthesis of ammonia from N ₂ and H ₂ O by an in-situ electrochemical activation of CNT-supported iron oxide nanoparticles. <i>Journal of Energy Chemistry</i> , 2020, 49, 22-32.	12.9	31

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37	Elucidating the mechanism of the CO ₂ methanation reaction over Ni ⁰ /Fe hydrotalcite-derived catalysts <i>via</i> surface-sensitive <i>in situ</i> XPS and NEXAFS. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18788-18797.	2.8	29
38	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. <i>Advanced Materials</i> , 2019, 31, e1801712.	21.0	88
39	Etherification of HMF to biodiesel additives: The role of NH ₄ ⁺ confinement in Beta zeolites. <i>Journal of Energy Chemistry</i> , 2019, 36, 114-121.	12.9	13
40	Deactivation mechanism of hydrotalcite-derived Ni ⁰ /Al _x catalysts during low-temperature CO ₂ methanation <i>via</i> Ni-hydroxide formation and the role of Fe in limiting this effect. <i>Catalysis Science and Technology</i> , 2019, 9, 4023-4035.	4.1	47
41	CO ₂ Reduction of Hybrid Cu ₂ O/Cu/Gas Diffusion Layer Electrodes and their Integration in a Cu-based Photoelectrocatalytic Cell. <i>ChemSusChem</i> , 2019, 12, 4274-4284.	6.8	39
42	Reassembly mechanism in Fe-Silicalite during NH ₄ OH post-treatment and relation with the acidity and catalytic reactivity. <i>Applied Catalysis A: General</i> , 2019, 580, 186-196.	4.3	22
43	Unconventional Pathways for Designing Silica-Supported Pt and Pd Catalysts With Hierarchical Porosity. <i>Studies in Surface Science and Catalysis</i> , 2019, , 377-397.	1.5	7
44	Turning carbon dioxide into fuel concomitantly to the photoanode-driven process of organic pollutant degradation by photoelectrocatalysis. <i>Electrochimica Acta</i> , 2019, 306, 277-284.	5.2	21
45	Production of Solar Fuels Using CO ₂ . <i>Studies in Surface Science and Catalysis</i> , 2019, , 7-30.	1.5	11
46	Electrochemical Dinitrogen Activation: To Find a Sustainable Way to Produce Ammonia. <i>Studies in Surface Science and Catalysis</i> , 2019, 178, 31-46.	1.5	20
47	Chemical engineering role in the use of renewable energy and alternative carbon sources in chemical production. <i>BMC Chemical Engineering</i> , 2019, 1, .	3.4	46
48	CO ₂ Methanation: Principles and Challenges. <i>Studies in Surface Science and Catalysis</i> , 2019, , 85-103.	1.5	54
49	Highly Efficient Metal-Free Nitrogen-Doped Nanocarbons with Unexpected Active Sites for Aerobic Catalytic Reactions. <i>ACS Nano</i> , 2019, 13, 13995-14004.	14.6	29
50	Direct Synthesis of H ₂ O ₂ on Pd Based Catalysts: Modelling the Particle Size Effects and the Promoting Role of Polyvinyl Alcohol. <i>ChemCatChem</i> , 2019, 11, 550-559.	3.7	12
51	Catalysis for solar-driven chemistry: The role of electrocatalysis. <i>Catalysis Today</i> , 2019, 330, 157-170.	4.4	49
52	Operando spectroscopy study of the carbon dioxide electro-reduction by iron species on nitrogen-doped carbon. <i>Nature Communications</i> , 2018, 9, 935.	12.8	182
53	CO ₂ methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. <i>Fuel</i> , 2018, 225, 230-242.	6.4	69
54	Water splitting on 3D-type meso/macro porous structured photoanodes based on Ti mesh. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 98-105.	6.2	26

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55	Direct <i>versus</i> acetalization routes in the reaction network of catalytic HMF etherification. <i>Catalysis Science and Technology</i> , 2018, 8, 1304-1313.	4.1	33
56	Hydrotalcite based Ni-Fe/(Mg, Al)O _x catalysts for CO ₂ methanation – tailoring Fe content for improved CO dissociation, basicity, and particle size. <i>Catalysis Science and Technology</i> , 2018, 8, 1016-1027.	4.1	87
57	Enhanced Catalytic Activity of Iron-Promoted Nickel on Al ₂ O ₃ Nanosheets for Carbon Dioxide Methanation. <i>Energy Technology</i> , 2018, 6, 1196-1207.	3.8	22
58	Hierarchically porous Pd/SiO ₂ catalyst by combination of miniemulsion polymerisation and sol-gel method for the direct synthesis of H ₂ O ₂ . <i>Catalysis Today</i> , 2018, 306, 16-22.	4.4	17
59	Role of CuO in the modification of the photocatalytic water splitting behavior of TiO ₂ nanotube thin films. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 136-145.	20.2	149
60	CO ₂ methanation over Ni catalysts based on ternary and quaternary mixed oxide: A comparison and analysis of the structure-activity relationships. <i>Catalysis Today</i> , 2018, 304, 181-189.	4.4	73
61	Development of photoanodes for photoelectrocatalytic solar cells based on copper-based nanoparticles on titania thin films of vertically aligned nanotubes. <i>Catalysis Today</i> , 2018, 304, 190-198.	4.4	11
62	Comparison of H ⁺ and NH ₄ ⁺ forms of zeolites as acid catalysts for HMF etherification. <i>Catalysis Today</i> , 2018, 304, 97-102.	4.4	36
63	Engineering of silica-supported platinum catalysts with hierarchical porosity combining latex synthesis, sonochemistry and sol-gel process – II. Catalytic performance. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 227-234.	4.4	11
64	Catalysis by hybrid sp ² /sp ³ nanodiamonds and their role in the design of advanced nanocarbon materials. <i>Chemical Society Reviews</i> , 2018, 47, 8438-8473.	38.1	130
65	Advanced Nanocarbon Materials for Future Energy Applications. , 2018, , 305-325.		7
66	Effect of the Solvent in Enhancing the Selectivity to Furan Derivatives in the Catalytic Hydrogenation of Furfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16235-16247.	6.7	50
67	Waste to Chemicals for a Circular Economy. <i>Chemistry - A European Journal</i> , 2018, 24, 11831-11839.	3.3	41
68	Frontispiece: Waste to Chemicals for a Circular Economy. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
69	Hierarchical Porosity Tailoring of Sol-Gel Derived Pt/SiO ₂ Catalysts. <i>Topics in Catalysis</i> , 2018, 61, 1424-1436.	2.8	2
70	Photoactive materials based on semiconducting nanocarbons – A challenge opening new possibilities for photocatalysis. <i>Journal of Energy Chemistry</i> , 2017, 26, 207-218.	12.9	31
71	Electrocatalytic Synthesis of Ammonia at Room Temperature and Atmospheric Pressure from Water and Nitrogen on a Carbon-Nanotube-Based Electrocatalyst. <i>Angewandte Chemie</i> , 2017, 129, 2743-2747.	2.0	98
72	Electrocatalytic Synthesis of Ammonia at Room Temperature and Atmospheric Pressure from Water and Nitrogen on a Carbon-Nanotube-Based Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2699-2703.	13.8	516

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73	Looking at the Future of Chemical Production through the European Roadmap on Science and Technology of Catalysis the EU Effort for a Long-term Vision. ChemCatChem, 2017, 9, 904-909.	3.7	34
74	Effect of the Structure and Mesoporosity in Ni/Zeolite Catalysts for <i>n</i> -Hexadecane Hydroisomerisation and Hydrocracking. ChemCatChem, 2017, 9, 1632-1640.	3.7	45
75	Mechanism of C-C bond formation in the electrocatalytic reduction of CO ₂ to acetic acid. A challenging reaction to use renewable energy with chemistry. Green Chemistry, 2017, 19, 2406-2415.	9.0	125
76	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
77	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. Journal of Energy Chemistry, 2017, 26, 219-240.	12.9	48
78	Waste-to-Chemicals for a Circular Economy: The Case of Urea Production (Waste-to-Urea). ChemSusChem, 2017, 10, 912-920.	6.8	54
79	Enhanced formation of >C1 Products in Electroreduction of CO ₂ by Adding a CO ₂ Adsorption Component to a Gas-Diffusion Layer-Type Catalytic Electrode. ChemSusChem, 2017, 10, 4442-4446.	6.8	50
80	Role of small Cu nanoparticles in the behaviour of nanocarbon-based electrodes for the electrocatalytic reduction of CO ₂ . Journal of CO ₂ Utilization, 2017, 21, 534-542.	6.8	49
81	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
82	Room-Temperature Electrocatalytic Synthesis of NH ₃ from H ₂ O and N ₂ in a Gas-Liquid-Solid Three-Phase Reactor. ACS Sustainable Chemistry and Engineering, 2017, 5, 7393-7400.	6.7	158
83	Beyond Solar Fuels: Renewable Energy-Driven Chemistry. ChemSusChem, 2017, 10, 4409-4419.	6.8	79
84	Waste-to-methanol: Process and economics assessment. Bioresource Technology, 2017, 243, 611-619.	9.6	82
85	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
86	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
87	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2017, , 2827-2880.		0
88	Catalyst Needs and Perspective for Integrating Biorefineries within the Refinery Value Chain. , 2017, , 375-396.		0
89	Carbon microspheres preparation, graphitization and surface functionalization for glycerol etherification. Catalysis Today, 2016, 277, 68-77.	4.4	27
90	Nanoscale Engineering in the Development of Photoelectrocatalytic Cells for Producing Solar Fuels. Topics in Catalysis, 2016, 59, 757-771.	2.8	24

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91	Influence of Zeolite Protective Overlayer on the Performances of Pd Thin Film Membrane on Tubular Asymmetric Alumina Supports. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4948-4959.	3.7	18
92	Pd Supported on Carbon Nitride Boosts the Direct Hydrogen Peroxide Synthesis. <i>ACS Catalysis</i> , 2016, 6, 6959-6966.	11.2	88
93	Selected papers from the 6th Czech-Italian-Spanish Conference on Molecular Sieves and Catalysis, Amantea, Italy, from June 14th to 17th 2015. <i>Catalysis Today</i> , 2016, 277, 1.	4.4	0
94	A Comparative Catalyst Evaluation for the Selective Oxidative Esterification of Furfural. <i>Topics in Catalysis</i> , 2016, 59, 1659-1667.	2.8	20
95	Engineering of silica-supported platinum catalysts with hierarchical porosity combining latex synthesis, sonochemistry and sol-gel process â€” I. Material preparation. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 207-214.	4.4	10
96	Synthesis, Characterization, and Activity Pattern of Niâ€”Al Hydrotalcite Catalysts in CO ₂ Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8299-8308.	3.7	133
97	Turning Perspective in Photoelectrocatalytic Cells for Solar Fuels. <i>ChemSusChem</i> , 2016, 9, 345-357.	6.8	53
98	On the nature of the active sites in the selective oxidative esterification of furfural on Au/ZrO ₂ catalysts. <i>Catalysis Today</i> , 2016, 278, 56-65.	4.4	31
99	Role of size and pretreatment of Pd particles on their behaviour in the direct synthesis of H ₂ O ₂ . <i>Journal of Energy Chemistry</i> , 2016, 25, 297-305.	12.9	13
100	Functional nano-textured titania-coatings with self-cleaning and antireflective properties for photovoltaic surfaces. <i>Solar Energy</i> , 2016, 125, 227-242.	6.1	41
101	Disruptive catalysis by zeolites. <i>Catalysis Science and Technology</i> , 2016, 6, 2485-2501.	4.1	68
102	HMF etherification using NH ₄ -exchanged zeolites. <i>New Journal of Chemistry</i> , 2016, 40, 4300-4306.	2.8	18
103	Catalytic Performance of Î³-Al ₂ O ₃ â€”ZrO ₂ â€”TiO ₂ â€”CeO ₂ Composite Oxide Supported Ni-Based Catalysts for CO ₂ Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4451-4460.	3.7	117
104	Advanced nanostructured titania photoactive materials for sustainable H ₂ production. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 115-121.	4.0	17
105	Electrolyte-less design of PEC cells for solar fuels: Prospects and open issues in the development of cells and related catalytic electrodes. <i>Catalysis Today</i> , 2016, 259, 246-258.	4.4	70
106	Status of Research and Challenges in Converting Natural Gas. , 2015, , 3-49.		1
107	New Sustainable Model of Biorefineries: Biofactories and Challenges of Integrating Bioâ€”and Solar Refineries. <i>ChemSusChem</i> , 2015, 8, 2854-2866.	6.8	49
108	Enhanced Hydrogen Transport over Palladium Ultrathin Films through Surface Nanostructure Engineering. <i>ChemSusChem</i> , 2015, 8, 3805-3814.	6.8	3

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109	Onion-Like Graphene Carbon Nanospheres as Stable Catalysts for Carbon Monoxide and Methane Chlorination. <i>ChemCatChem</i> , 2015, 7, 3036-3046.	3.7	19
110	Solar Production of Fuels from Water and CO ₂ : Perspectives and Opportunities for a Sustainable Use of Renewable Energy. <i>Oil and Gas Science and Technology</i> , 2015, 70, 799-815.	1.4	16
111	High-Throughput Screening of Heterogeneous Catalysts for the Conversion of Furfural to Bio-Based Fuel Components. <i>Catalysts</i> , 2015, 5, 2244-2257.	3.5	34
112	CO ₂ capture and reduction to liquid fuels in a novel electrochemical setup by using metal-doped conjugated microporous polymers. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 701-713.	2.9	38
113	Energy-related catalysis. <i>National Science Review</i> , 2015, 2, 143-145.	9.5	11
114	Chemical Energy Conversion as Enabling Factor to Move to a Renewable Energy Economy. <i>Green</i> , 2015, 5, 43-54.	0.4	14
115	CO ₂ utilization: an enabling element to move to a resource- and energy-efficient chemical and fuel production. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140177.	3.4	145
116	The role of oxide location in HMF etherification with ethanol over sulfated ZrO ₂ supported on SBA-15. <i>Journal of Catalysis</i> , 2015, 323, 19-32.	6.2	59
117	Use of modified anodization procedures to prepare advanced TiO ₂ nanostructured catalytic electrodes and thin film materials. <i>Catalysis Today</i> , 2015, 251, 121-131.	4.4	17
118	Monitoring of glucose in fermentation processes by using Au/TiO ₂ composites as novel modified electrodes. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 943-951.	2.9	12
119	Electrocatalytic conversion of CO ₂ to produce solar fuels in electrolyte or electrolyte-less configurations of PEC cells. <i>Faraday Discussions</i> , 2015, 183, 125-145.	3.2	59
120	The role of acid sites induced by defects in the etherification of HMF on Silicalite-1 catalysts. <i>Journal of Catalysis</i> , 2015, 330, 558-568.	6.2	72
121	The energy-chemistry nexus: A vision of the future from sustainability perspective. <i>Journal of Energy Chemistry</i> , 2015, 24, 535-547.	12.9	52
122	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2015, , 1-43.		0
123	Nanocarbons: Opening New Possibilities for Nano-engineered Novel Catalysts and Catalytic Electrodes. <i>Catalysis Surveys From Asia</i> , 2014, 18, 149-163.	2.6	30
124	Role of Feed Composition on the Performances of Pd-Based Catalysts for the Direct Synthesis of H ₂ O ₂ . <i>Topics in Catalysis</i> , 2014, 57, 1208-1217.	2.8	7
125	Advanced Oxidation Processes in Water Treatment. , 2014, , 251-290.		2
126	Trading Renewable Energy by using CO ₂ : An Effective Option to Mitigate Climate Change and Increase the use of Renewable Energy Sources. <i>Energy Technology</i> , 2014, 2, 453-461.	3.8	51

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127	16. Advanced photocatalytic materials by nanocarbon hybrid materials. , 2014, , 429-454.		5
128	A gas-phase reactor powered by solar energy and ethanol for H ₂ production. Applied Thermal Engineering, 2014, 70, 1270-1275.	6.0	26
129	Evolving scenarios for biorefineries and the impact on catalysis. Catalysis Today, 2014, 234, 2-12.	4.4	47
130	A New Scenario for Green & Sustainable Chemical Production. Journal of the Chinese Chemical Society, 2014, 61, 719-730.	1.4	21
131	Catalysis for biomass and CO ₂ use through solar energy: opening new scenarios for a sustainable and low-carbon chemical production. Chemical Society Reviews, 2014, 43, 7562-7580.	38.1	189
132	Dynamics of Palladium on Nanocarbon in the Direct Synthesis of H ₂ O ₂ . ChemSusChem, 2014, 7, 179-194.	6.8	78
133	CO ₂ Recycling: A Key Strategy to Introduce Green Energy in the Chemical Production Chain. ChemSusChem, 2014, 7, 1274-1282.	6.8	196
134	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
135	Low-temperature graphitization of amorphous carbon nanospheres. Chinese Journal of Catalysis, 2014, 35, 869-876.	14.0	43
136	Catalytic Transformation of CO ₂ to Fuels and Chemicals, with Reference to Biorefineries. , 2013, , 529-555.		10
137	Electrocatalytic conversion of CO ₂ to liquid fuels using nanocarbon-based electrodes. Journal of Energy Chemistry, 2013, 22, 202-213.	12.9	102
138	Mixed-Metal Oxides. , 2013, , 153-184.		1
139	Photoelectrochemical properties of doped lanthanum orthoferrites. Electrochimica Acta, 2013, 109, 710-715.	5.2	43
140	Electrocatalytic conversion of CO ₂ on carbon nanotube-based electrodes for producing solar fuels. Journal of Catalysis, 2013, 308, 237-249.	6.2	80
141	Carbon growth evidences as a result of benzene pyrolysis. Carbon, 2013, 59, 296-307.	10.3	30
142	Catalysis for CO ₂ 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
143	On the Nature of Selective Palladium-Based Nanoparticles on Nitrogen-Doped Carbon Nanotubes for the Direct Synthesis of H ₂ O ₂ . ChemCatChem, 2013, 5, 1899-1905.	3.7	47
144	Nanocarbons for the Development of Advanced Catalysts. Chemical Reviews, 2013, 113, 5782-5816.	47.7	1,163

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145	H ₂ production by selective photo-dehydrogenation of ethanol in gas and liquid phase on CuOx/TiO ₂ nanocomposites. RSC Advances, 2013, 3, 21776.	3.6	70
146	Realizing Resource and Energy Efficiency in Chemical Industry by Using CO ₂ . Green Energy and Technology, 2013, , 27-43.	0.6	1
147	Advances in Catalysts and Processes for Methanol Synthesis from CO ₂ . Green Energy and Technology, 2013, , 147-169.	0.6	5
148	New Energy Sources and CO ₂ Treatment. Issues in Agroecology, 2013, , 143-160.	0.1	3
149	5.1 Photoelectrochemical CO ₂ Activation toward Artificial Leaves. , 2012, , 379-400.		2
150	The use of a solar photoelectrochemical reactor for sustainable production of energy. Theoretical Foundations of Chemical Engineering, 2012, 46, 651-657.	0.7	26
151	New Insights from Microcalorimetry on the FeOx/CNT-Based Electrocatalysts Active in the Conversion of CO ₂ to Fuels. ChemSusChem, 2012, 5, 577-586.	6.8	49
152	Towards Artificial Leaves for Solar Hydrogen and Fuels from Carbon Dioxide. ChemSusChem, 2012, 5, 500-521.	6.8	203
153	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
154	Deactivation mechanism of Pd supported on ordered and non-ordered mesoporous silica in the direct H ₂ O ₂ synthesis using CO ₂ -expanded methanol. Catalysis Today, 2012, 179, 170-177.	4.4	17
155	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2012, , 1849-1890.		1
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308	Luminescence processes in [Tb.cntnd.bpy.bpy.bpy] ³⁺ cryptate: a low-temperature solid-state study. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2419-2422.	2.9	62
309	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. <i>The Journal of Physical Chemistry</i> , 1987, 91, 6136-6139.	2.9	47
310	Luminescence Probes: The Eu ³⁺ - and Tb ³⁺ -Cryptates of Polypyridine Macrobicyclic Ligands. <i>Angewandte Chemie International Edition in English</i> , 1987, 26, 1266-1267.	4.4	143
311	Photophysics of Ce ³⁺ cryptates. <i>Inorganica Chimica Acta</i> , 1987, 133, 167-173.	2.4	56
312	Electron and energy transfer processes of excited states of europium(III) and terbium(III) aquo ions and cryptates. <i>Journal of the Less Common Metals</i> , 1986, 126, 329-334.	0.8	8
313	Nano-architecture and reactivity of Titania catalytic materials. <i>Quasi</i> -1D nanostructures. <i>Catalysis</i> , 0, , 367-402.	1.0	8
314	Basell Spherizone Technology. , 0, , 563-578.		3
315	Membrane Technologies at the Service of Sustainable Development through Process Intensification. , 0, , 257-278.		2
316	Friedel-Crafts Acylation of Aromatic Ethers Using Zeolites. , 0, , 529-540.		0