Gabriele Centi

List of Publications by Year
in descending order

473 papers	27,311 citations	6840 81 h-index	10955 142 g-index
601 all docs	601 docs citations	601 times ranked	24353 citing authors

#	Article	IF	Citations
1	Recent advancement in deoxygenation of fatty acids via homogeneous catalysis for biofuel production. Molecular Catalysis, 2022, 523, 111207.	1.0	10
2	Redesign chemical processes to substitute the use of fossil fuels: A viewpoint of the implications on catalysis. Catalysis Today, 2022, 387, 216-223.	2.2	20
3	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.	2.2	9
4	Controlled location of S vacancies in MoS2 nanosheets for high-performance hydrogenation of CO2 to methanol. Journal of Energy Chemistry, 2022, 64, 113-115.	7.1	5
5	Across the Board: Gabriele Centi on Decoupling Electrocatalytic Reactions to Electrify Chemical Production. ChemSusChem, 2022, 15, e202200007.	3.6	5
6	Zeolite templated carbon from Beta replica as metal-free electrocatalyst for CO2 reduction. Applied Materials Today, 2022, 26, 101383.	2.3	1
7	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.	7.1	14
8	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.	5.5	44
9	Transforming catalysis to produce e-fuels: Prospects and gaps. Chinese Journal of Catalysis, 2022, 43, 1194-1203.	6.9	15
10	Assessment of hydrogen production from municipal solid wastes as competitive route to produce low-carbon H2. Science of the Total Environment, 2022, 827, 154393.	3.9	11
11	Dynamics at Polarized Carbon Dioxideâ€“Iron Oxyhydroxide Interfaces Unveil the Origin of Multicarbon Product Formation. ACS Catalysis, 2022, 12, 411-430.	5.5	19
12	Catalytic Technologies for the Conversion and Reuse of CO2. , 2022, , 1803-1852.		1
13	Reduction of Non-CO2 Greenhouse Gas Emissions by Catalytic Processes. , 2022, , 1759-1802.		0
14	Revealing the role of edges in the electrocatalytic synthesis of H2O2 over metal-free nanocarbon. Chem Catalysis, 2022, 2, 1251-1253.	2.9	0
15	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.	6.6	31
16	High performance of Au/ZTC based catalysts for the selective oxidation of bio-derivative furfural to 2-furoic acid. Catalysis Communications, 2021, 149, 106234.	1.6	30
17	Prospects for a green methanol thermo-catalytic process from CO2 by using MOFs based materials: A mini-review. Journal of CO2 Utilization, 2021, 43, 101361.	3.3	59
18	Reuse of CO₂ in energy intensive process industries. Chemical Communications, 2021, 57, 10967-10982.	2.2	29

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19	Reduction of Non-CO2 Greenhouse Gas Emissions by Catalytic Processes. , 2021, , 1-44.		0
20	Nanocarbon for Energy Material Applications: N₂ Reduction Reaction. Small, 2021, 17, e2007055.	5.2	26
21	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.	3.0	4
22	Green methanol synthesis by catalytic CO2 hydrogenation, deciphering the role of metal-metal interaction. Sustainable Chemistry and Pharmacy, 2021, 21, 100420.	1.6	8
23	Tuning the Chemical Properties of Coâ€"Ti₃C₂T<i>_x</i> MXene Materials for Catalytic CO₂ Reduction. Small, 2021, 17, e2007509.	5.2	35
24	Supported metallic nanoparticles prepared by an organometallic route to boost the electrocatalytic conversion of CO2. Journal of CO2 Utilization, 2021, 50, 101613.	3.3	5
25	Application of cobalt ferrite nano-catalysts for methanol synthesis by CO2 hydrogenation: Deciphering the role of metals cations distribution. Ceramics International, 2021, 47, 19234-19240.	2.3	22
26	Catalytic Technologies for the Conversion and Reuse of CO2. , 2021, , 1-50.		0
27	Comparing Molecular Mechanisms in Solar NH3 Production and Relations with CO2 Reduction. International Journal of Molecular Sciences, 2021, 22, 139.	1.8	12
28	Current density in solar fuel technologies. Energy and Environmental Science, 2021, 14, 5760-5787.	15.6	32
29	Plasma assisted CO2 splitting to carbon and oxygen: A concept review analysis. Journal of CO2 Utilization, 2021, 54, 101775.	3.3	13
30	Synthesis, Characterization, and Magnetic Behavior of Cobalt-Ferrite Nanoparticles under Variant Temperature Conditions. Physics of the Solid State, 2021, 63, 519-524.	0.2	1
31	Chemistry and energy beyond fossil fuels. A perspective view on the role of syngas from waste sources. Catalysis Today, 2020, 342, 4-12.	2.2	57
32	Electrocatalytic reduction of CO2 over dendritic-type Cu- and Fe-based electrodes prepared by electrodeposition. Journal of CO2 Utilization, 2020, 35, 194-204.	3.3	20
33	Artificial leaves using sunlight to produce fuels. Studies in Surface Science and Catalysis, 2020, 179, 415-430.	1.5	1
34	Highly selective bifunctional Ni zeo-type catalysts for hydroprocessing of methyl palmitate to green diesel. Catalysis Today, 2020, 345, 14-21.	2.2	31
35	The vision of future sustainable energy, catalyst, and chemistry: opportunities for innovation and business. Studies in Surface Science and Catalysis, 2020, , 7-20.	1.5	3
36	Deposition of NiO Nanoparticles on Nanosized Zeolite NaY for Production of Biofuel via Hydrogen-Free Deoxygenation. Materials, 2020, 13, 3104.	1.3	13

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37	Enhancing N₂ Fixation Activity by Converting Ti₃C₂ MXenes Nanosheets to Nanoribbons. ChemSusChem, 2020, 13, 5614-5619.	3.6	26
38	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.	5.4	27
39	Economics of CO2 Utilization: A Critical Analysis. Frontiers in Energy Research, 2020, 8, .	1.2	38
40	Realâ€Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. ChemElectroChem, 2020, 7, 4417-4422.	1.7	4
41	Smart catalytic materials for energy transition. SmartMat, 2020, 1, e1005.	6.4	54
42	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.	1.7	12
43	Weakly acidic zeolites: A review on uses and relationship between nature of the active sites and catalytic behaviour. Microporous and Mesoporous Materials, 2020, 300, 110157.	2.2	16
44	Plasma Technology for CO2 Conversion: A Personal Perspective on Prospects and Gaps. Frontiers in Energy Research, 2020, 8, .	1.2	101
45	Deoxygenation of triolein to green diesel in the H2-free condition: Effect of transition metal oxide supported on zeolite Y. Journal of Analytical and Applied Pyrolysis, 2020, 147, 104797.	2.6	47
46	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.	7.1	31
47	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.	1.3	29
48	The 2020 plasma catalysis roadmap. Journal Physics D: Applied Physics, 2020, 53, 443001.	1.3	362
49	2D Oxide Nanomaterials to Address the Energy Transition and Catalysis. Advanced Materials, 2019, 31, e1801712.	11.1	88
50	Etherification of HMF to biodiesel additives: The role of NH4+ confinement in Beta zeolites. Journal of Energy Chemistry, 2019, 36, 114-121.	7.1	13
51	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.	2.1	47
52	CO₂ Reduction of Hybrid Cu₂Oâ€“Cu/Gas Diffusion Layer Electrodes and their Integration in a Cuâ€based Photoelectrocatalytic Cell. ChemSusChem, 2019, 12, 4274-4284.	3.6	39
53	The role of nanosized zeolite Y in the H₂-free catalytic deoxygenation of triolein. Catalysis Science and Technology, 2019, 9, 772-782.	2.1	37
54	Pure H2 production by methane oxy-reforming over Rh-Mg-Al hydrotalcite-derived catalysts coupled with a Pd membrane. Applied Catalysis A: General, 2019, 581, 91-102.	2.2	16

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55	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.	2.2	22
56	Production of Solar Fuels Using CO2. Studies in Surface Science and Catalysis, 2019, , 7-30.	1.5	11
57	Electrochemical Dinitrogen Activation: To Find a Sustainable Way to Produce Ammonia. Studies in Surface Science and Catalysis, 2019, 178, 31-46.	1.5	20
58	Special Issue to Mark the 50th Anniversary of the Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences. ChemSusChem, 2019, 12, 554-555.	3.6	0
59	Chemical engineering role in the use of renewable energy and alternative carbon sources in chemical production. BMC Chemical Engineering, 2019, 1, .	3.4	46
60	On the R&D Landscape Evolution in Catalytic Upgrading of Biomass. Studies in Surface Science and Catalysis, 2019, , 149-171.	1.5	2
61	CO2 Methanation: Principles and Challenges. Studies in Surface Science and Catalysis, 2019, , 85-103.	1.5	54
62	Highly Efficient Metal-Free Nitrogen-Doped Nanocarbons with Unexpected Active Sites for Aerobic Catalytic Reactions. ACS Nano, 2019, 13, 13995-14004.	7.3	29
63	Needs and Gaps for Catalysis in Addressing Transitions in Chemistry and Energy from a Sustainability Perspective. ChemSusChem, 2019, 12, 621-632.	3.6	19
64	Direct Synthesis of H2O2on Pd Based Catalysts: Modelling the Particle Size Effects and the Promoting Role of Polyvinyl Alcohol. ChemCatChem, 2019, 11, 550-559.	1.8	12
65	Catalysis for solar-driven chemistry: The role of electrocatalysis. Catalysis Today, 2019, 330, 157-170.	2.2	49
66	Operando spectroscopy study of the carbon dioxide electro-reduction by iron species on nitrogen-doped carbon. Nature Communications, 2018, 9, 935.	5.8	182
67	CO2 methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. Fuel, 2018, 225, 230-242.	3.4	69
68	Water splitting on 3D-type meso/macro porous structured photoanodes based on Ti mesh. Solar Energy Materials and Solar Cells, 2018, 178, 98-105.	3.0	26
69	Direct <i>versus</i> acetalization routes in the reaction network of catalytic HMF etherification. Catalysis Science and Technology, 2018, 8, 1304-1313.	2.1	33
70	Waste as a Source of Carbon for Methanol Production. , 2018, , 95-111.		5
71	Methanol Economy: Environment, Demand, and Marketing With a Focus on the Waste-to-Methanol Process. , 2018, , 595-612.		8
72	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.	2.1	87

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73	Enhanced Catalytic Activity of Ironâ€Promoted Nickel on Î³â€Al₂O₃ Nanosheets for Carbon Dioxide Methanation. Energy Technology, 2018, 6, 1196-1207.	1.8	22
74	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.	10.8	149
75	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.	2.2	73
76	Development of photoanodes for photoelectrocatalytic solar cells based on copper-based nanoparticles on titania thin films of vertically aligned nanotubes. Catalysis Today, 2018, 304, 190-198.	2.2	11
77	Comparison of H + and NH 4 + forms of zeolites as acid catalysts for HMF etherification. Catalysis Today, 2018, 304, 97-102.	2.2	36
78	New catalytic materials for energy and chemistry in transition. Chemical Society Reviews, 2018, 47, 8066-8071.	18.7	27
79	Catalysis by hybrid sp²/sp³nanodiamonds and their role in the design of advanced nanocarbon materials. Chemical Society Reviews, 2018, 47, 8438-8473.	18.7	130
80	Advanced Nanocarbon Materials for Future Energy Applications. , 2018, , 305-325.		7
81	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.	3.2	50
82	Waste to Chemicals for a Circular Economy. Chemistry - A European Journal, 2018, 24, 11831-11839.	1.7	41
83	Frontispiece: Waste to Chemicals for a Circular Economy. Chemistry - A European Journal, 2018, 24, .	1.7	0
84	Photoactive materials based on semiconducting nanocarbons â€" A challenge opening new possibilities for photocatalysis. Journal of Energy Chemistry, 2017, 26, 207-218.	7.1	31
85	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.	1.6	98
86	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.	7.2	516
87	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.	1.8	34
88	Effect of the Structure and Mesoporosity in Ni/Zeolite Catalysts for <i>n</i>â€Hexadecane Hydroisomerisation and Hydrocracking. ChemCatChem, 2017, 9, 1632-1640.	1.8	45
89	Decisive Intermediates Responsible for the Carbonaceous Products of CO₂ Electroâ€reduction on Nitrogenâ€Doped sp² Nanocarbon Catalysts in NaHCO₃ Aqueous Electrolyte. ChemElectroChem, 2017, 4, 1274-1278.	1.7	9
90	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.	4.6	125

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91	Engineering of photoanodes based on ordered TiO 2 -nanotube arrays in solar photo-electrocatalytic (PECa) cells. Chemical Engineering Journal, 2017, 320, 352-362.	6.6	43
92	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. Journal of Energy Chemistry, 2017, 26, 219-240.	7.1	48
93	Wasteâ€toâ€Chemicals for a Circular Economy: The Case of Urea Production (Wasteâ€toâ€Urea). ChemSusChem, 2017, 10, 912-920.	3.6	54
94	Chemistry Future: Priorities and Opportunities from the Sustainability Perspective. ChemSusChem, 2017, 10, 6-13.	3.6	55
95	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.	3.6	50
96	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.	3.3	49
97	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.	2.1	71
98	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.	3.2	158
99	Beyond Solar Fuels: Renewable Energyâ€Driven Chemistry. ChemSusChem, 2017, 10, 4409-4419.	3.6	79
100	Waste-to-methanol: Process and economics assessment. Bioresource Technology, 2017, 243, 611-619.	4.8	82
101	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.	7.1	28
102	Applied bias photon-to-current conversion efficiency of ZnO enhanced by hybridization with reduced graphene oxide. Journal of Energy Chemistry, 2017, 26, 302-308.	7.1	39
103	Harvesting Renewable Energy for Carbon Dioxide Catalysis. Energy Technology, 2017, 5, 796-811.	1.8	42
104	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2017, , 2827-2880.		0
105	Catalyst Needs and Perspective for Integrating Biorefineries within the Refinery Value Chain. , 2017, , 375-396.		0
106	Synthesis of 2-Butanone by Selective Oxidation on Solid Wacker-type Catalysts. , 2017, , 319-329.		0
107	Revealing the Origin of Activity in Nitrogenâ€Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. ChemSusChem, 2016, 9, 1085-1089.	3.6	143
108	Dimethyl ether production from CO2 rich feedstocks in a one-step process: Thermodynamic evaluation and reactor simulation. Chemical Engineering Journal, 2016, 294, 400-409.	6.6	84

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109	Carbon microspheres preparation, graphitization and surface functionalization for glycerol etherification. Catalysis Today, 2016, 277, 68-77.	2.2	27
110	Nanoscale Engineering in the Development of Photoelectrocatalytic Cells for Producing Solar Fuels. Topics in Catalysis, 2016, 59, 757-771.	1.3	24
111	Synergetic effects in novel hydrogenated F-doped TiO2 photocatalysts. Applied Surface Science, 2016, 370, 380-393.	3.1	108
112	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.	1.8	18
113	Inside the polygonal walls of Amelia (Central Italy): A multidisciplinary data integration, encompassing geodetic monitoring and geophysical prospections. Journal of Applied Geophysics, 2016, 127, 31-44.	0.9	22
114	Pd Supported on Carbon Nitride Boosts the Direct Hydrogen Peroxide Synthesis. ACS Catalysis, 2016, 6, 6959-6966.	5.5	88
115	Electrochemical behaviour of naked sub-nanometre sized copper clusters and effect of CO₂. Catalysis Science and Technology, 2016, 6, 6977-6985.	2.1	31
116	A Comparative Catalyst Evaluation for the Selective Oxidative Esterification of Furfural. Topics in Catalysis, 2016, 59, 1659-1667.	1.3	20
117	Synthesis, Characterization, and Activity Pattern of Niâ€“Al Hydrotalcite Catalysts in CO₂ Methanation. Industrial & Engineering Chemistry Research, 2016, 55, 8299-8308.	1.8	133
118	Bimetallische Ni-Fe-Hydrotalcit-Katalysatoren fÃ¼r die effektive Umsetzung von CO2zu Erdgas. Chemie-Ingenieur-Technik, 2016, 88, 1261-1261.	0.4	0
119	Turning Perspective in Photoelectrocatalytic Cells for Solar Fuels. ChemSusChem, 2016, 9, 345-357.	3.6	53
120	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.	2.2	31
121	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.	7.1	13
122	Functional nano-textured titania-coatings with self-cleaning and antireflective properties for photovoltaic surfaces. Solar Energy, 2016, 125, 227-242.	2.9	41
123	Disruptive catalysis by zeolites. Catalysis Science and Technology, 2016, 6, 2485-2501.	2.1	68
124	HMF etherification using NH₄-exchanged zeolites. New Journal of Chemistry, 2016, 40, 4300-4306.	1.4	18
125	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.	1.8	117
126	Advanced nanostructured titania photoactive materials for sustainable H2 production. Materials Science in Semiconductor Processing, 2016, 42, 115-121.	1.9	17

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127	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.	2.2	70
128	Synergic effect of tungstophosphoric acid and sonication for rapid synthesis of crystalline nanocellulose. Carbohydrate Polymers, 2016, 138, 349-355.	5.1	73
129	Ceramic Membranes for Gas Treatment and Separation. , 2016, , 219-246.		1
130	Hybrid Modeling of Membrane Processes. , 2016, , 149-172.		0
131	Status of Research and Challenges in Converting Natural Gas. , 2015, , 3-49.		1
132	New Sustainable Model of Biorefineries: Biofactories and Challenges of Integrating Bioâ€•and Solar Refineries. ChemSusChem, 2015, 8, 2854-2866.	3.6	49
133	Enhanced Hydrogen Transport over Palladium Ultrathin Films through Surface Nanostructure Engineering. ChemSusChem, 2015, 8, 3805-3814.	3.6	3
134	Onionâ€Like Graphene Carbon Nanospheres as Stable Catalysts for Carbon Monoxide and Methane Chlorination. ChemCatChem, 2015, 7, 3036-3046.	1.8	19
135	Solar Production of Fuels from Water and CO₂: Perspectives and Opportunities for a Sustainable Use of Renewable Energy. Oil and Gas Science and Technology, 2015, 70, 799-815.	1.4	16
136	High-Throughput Screening of Heterogeneous Catalysts for the Conversion of Furfural to Bio-Based Fuel Components. Catalysts, 2015, 5, 2244-2257.	1.6	34
137	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.	1.5	38
138	Energy-related catalysis. National Science Review, 2015, 2, 143-145.	4.6	11
139	Chemical Energy Conversion as Enabling Factor to Move to a Renewable Energy Economy. Green, 2015, 5, 43-54.	0.4	14
140	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.	1.6	145
141	Catalytic Partial Oxidation Coupled with Membrane Purification to Improve Resource and Energy Efficiency in Syngas Production. ChemSusChem, 2015, 8, 717-725.	3.6	16
142	Across the Board: Gabriele Centi. ChemSusChem, 2015, 8, 212-216.	3.6	5
143	The role of oxide location in HMF etherification with ethanol over sulfated ZrO2 supported on SBA-15. Journal of Catalysis, 2015, 323, 19-32.	3.1	59
144	Use of modified anodization procedures to prepare advanced TiO2 nanostructured catalytic electrodes and thin film materials. Catalysis Today, 2015, 251, 121-131.	2.2	17

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145	Monitoring of glucose in fermentation processes by using Au/TiO2 composites as novel modified electrodes. Journal of Applied Electrochemistry, 2015, 45, 943-951.	1.5	12
146	Electrocatalytic conversion of CO₂ to produce solar fuels in electrolyte or electrolyte-less configurations of PEC cells. Faraday Discussions, 2015, 183, 125-145.	1.6	59
147	Enhancement of the intrinsic photocatalytic activity of TiO2 in the degradation of 1,3,5-triazine herbicides by doping with N,F. Chemical Engineering Journal, 2015, 280, 330-343.	6.6	56
148	The role of acid sites induced by defects in the etherification of HMF on Silicalite-1 catalysts. Journal of Catalysis, 2015, 330, 558-568.	3.1	72
149	The energy-chemistry nexus: A vision of the future from sustainability perspective. Journal of Energy Chemistry, 2015, 24, 535-547.	7.1	52
150	CO₂reduction reactions: general discussion. Faraday Discussions, 2015, 183, 261-290.	1.6	6
151	Reduction of Greenhouse Gas Emissions by Catalytic Processes. , 2015, , 1-43.		0
152	Nanocarbons: Opening New Possibilities for Nano-engineered Novel Catalysts and Catalytic Electrodes. Catalysis Surveys From Asia, 2014, 18, 149-163.	1.0	30
153	Role of Feed Composition on the Performances of Pd-Based Catalysts for the Direct Synthesis of H2O2. Topics in Catalysis, 2014, 57, 1208-1217.	1.3	7
154	Advanced Oxidation Processes in Water Treatment. , 2014, , 251-290.		2
155	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.	1.8	51
156	16. Advanced photocatalytic materials by nanocarbon hybrid materials. , 2014, , 429-454.		5
157	A gas-phase reactor powered by solar energy and ethanol for H2 production. Applied Thermal Engineering, 2014, 70, 1270-1275.	3.0	26
158	Evolving scenarios for biorefineries and the impact on catalysis. Catalysis Today, 2014, 234, 2-12.	2.2	47
159	A New Scenario for Green & Sustainable Chemical Production. Journal of the Chinese Chemical Society, 2014, 61, 719-730.	0.8	21
160	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.	18.7	189
161	Dynamics of Palladium on Nanocarbon in the Direct Synthesis of H₂O₂. ChemSusChem, 2014, 7, 179-194.	3.6	78
162	CO₂ Recycling: A Key Strategy to Introduce Green Energy in the Chemical Production Chain. ChemSusChem, 2014, 7, 1274-1282.	3.6	196

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163	Carbon-based catalysts: Opening new scenario to develop next-generation nano-engineered catalytic materials. Chinese Journal of Catalysis, 2014, 35, 783-791.	6.9	40
164	Low-temperature graphitization of amorphous carbon nanospheres. Chinese Journal of Catalysis, 2014, 35, 869-876.	6.9	43
165	Catalytic Transformation of CO2 to Fuels and Chemicals, with Reference to Biorefineries. , 2013, , 529-555.		10
166	Electrocatalytic conversion of CO2 to liquid fuels using nanocarbon-based electrodes. Journal of Energy Chemistry, 2013, 22, 202-213.	7.1	102
167	Mixed-Metal Oxides. , 2013, , 153-184.		1
168	Photoelectrochemical properties of doped lanthanum orthoferrites. Electrochimica Acta, 2013, 109, 710-715.	2.6	43
169	Electrocatalytic conversion of CO2 on carbon nanotube-based electrodes for producing solar fuels. Journal of Catalysis, 2013, 308, 237-249.	3.1	80
170	Carbon growth evidences as a result of benzene pyrolysis. Carbon, 2013, 59, 296-307.	5.4	30
171	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.	15.6	1,011
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