

Carbon-Catalyzed Oxidative Dehydrogenation of *n*-
during $sp^3 \rightarrow sp^2$ Lattice

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Citation Report

#	ARTICLE	IF	CITATIONS
1	HNO ₃ -activated mesoporous carbon catalyst for direct dehydrogenation of propane to propylene. <i>Catalysis Communications</i> , 2011, 16, 81-85.	1.6	59
2	Calorimetric Study of Propane and Propylene Adsorption on the Active Surface of Multiwalled Carbon Nanotube Catalysts. <i>ChemPhysChem</i> , 2011, 12, 2709-2713.	1.0	12
4	Oxygen Insertion Catalysis by sp ² Carbon. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10226-10230.	7.2	118
5	Amino-grafted graphene as a stable and metal-free solid basic catalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 7456.	6.7	89
6	Solvent-Free and Metal-Free Oxidation of Toluene Using O ₂ and g-C ₃ N ₄ with Nanopores: Nanostructure Boosts the Catalytic Selectivity. <i>ACS Catalysis</i> , 2012, 2, 2082-2086.	5.5	227
7	Catalytic performance of sucrose-derived CMK-3 in oxidative dehydrogenation of propane to propene. <i>Applied Catalysis A: General</i> , 2012, 445-446, 321-328.	2.2	20
8	Site-dependent catalytic activity of graphene oxides towards oxidative dehydrogenation of propane. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16558.	1.3	51
9	Nitrogen-Doped Graphene Nanosheets as Metal-Free Catalysts for Aerobic Selective Oxidation of Benzylic Alcohols. <i>ACS Catalysis</i> , 2012, 2, 622-631.	5.5	384
10	Resin-Derived Hierarchical Porous Carbon Spheres with High Catalytic Performance in the Oxidative Dehydrogenation of Ethylbenzene. <i>ChemSusChem</i> , 2012, 5, 687-693.	3.6	23
11	Synthesis of ordered mesoporous carbon materials and their catalytic performance in dehydrogenation of propane to propylene. <i>Catalysis Today</i> , 2012, 186, 35-41.	2.2	46
12	On-Chip Catalytic Microreactors for Modern Catalysis Research. <i>ChemCatChem</i> , 2013, 5, 2091-2099.	1.8	48
13	First-Principles Studies of the Activation of Oxygen Molecule and Its Role in Partial Oxidation of Methane on Boron-Doped Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17485-17492.	1.5	17
14	sp ² - and sp ³ -hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , 2013, 3, 2654.	2.1	46
15	Research progress in metal-free carbon-based catalysts. <i>Chinese Journal of Catalysis</i> , 2013, 34, 508-523.	6.9	111
17	Tuning the catalytic performance of carbon nanotubes by tuning the conjugation between the π orbitals of carbon nanotubes and the active oxygenic functional groups. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1291-1296.	6.9	7
18	Carbocatalysts: Graphene Oxide and Its Derivatives. <i>Accounts of Chemical Research</i> , 2013, 46, 2275-2285.	7.6	477
19	The Role of Palladium Dynamics in the Surface Catalysis of Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2114-2117.	7.2	75
20	Quantum-Chemical Investigation of Hydrocarbon Oxidative Dehydrogenation over Spin-Active Carbon Catalyst Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6225-6234.	1.5	30

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21	Polycondensation of Boron- and Nitrogen-Codoped Holey Graphene Monoliths from Molecules: Carbocatalysts for Selective Oxidation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4572-4576.	7.2	215
22	Carbon-Mediated Catalysis: Oxidative Dehydrogenation on Graphitic Carbon. <i>ACS Symposium Series</i> , 2013, , 247-258.	0.5	7
23	Oxygen-Functionalized Few-Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. <i>ChemSusChem</i> , 2013, 6, 840-846.	3.6	61
24	Nanocarbons for the Development of Advanced Catalysts. <i>Chemical Reviews</i> , 2013, 113, 5782-5816.	23.0	1,163
25	Surface Stability of Pt ₃ Ni Nanoparticulate Alloy Electrocatalysts in Hydrogen Adsorption. <i>Langmuir</i> , 2013, 29, 9046-9050.	1.6	17
26	Hydrogen and carbon monoxide generation from laser-induced graphitized nanodiamonds in water. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7155.	1.3	11
27	Emission of Highly Activated Soot Particulate—The Other Side of the Coin with Modern Diesel Engines. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2673-2677.	7.2	67
31	Allotropic Carbon Nanoforms as Advanced Metal-Free Catalysts or as Supports. <i>Advances in Chemistry</i> , 2014, 2014, 1-20.	1.1	12
32	Nanocarbons: Opening New Possibilities for Nano-engineered Novel Catalysts and Catalytic Electrodes. <i>Catalysis Surveys From Asia</i> , 2014, 18, 149-163.	1.0	30
33	Evolution and Reactivity of Active Oxygen Species on sp ² @sp ³ Core-Shell Carbon for the Oxidative Dehydrogenation Reaction. <i>ChemCatChem</i> , 2014, 6, 2270-2275.	1.8	29
34	Diamond-like carbon doped with highly π -conjugated molecules by plasma-assisted CVD. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 010203.	0.8	4
35	Insight into the activation of light alkanes over surface-modified carbon nanotubes from theoretical calculations. <i>Carbon</i> , 2014, 77, 122-129.	5.4	8
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37	Model Molecules with Oxygenated Groups Catalyze the Reduction of Nitrobenzene: Insight into Carbocatalysis. <i>ChemCatChem</i> , 2014, 6, 1558-1561.	1.8	56
38	Identifying Active Functionalities on Few-Layered Graphene Catalysts for Oxidative Dehydrogenation of Isobutane. <i>ChemSusChem</i> , 2014, 7, 483-491.	3.6	56
39	Hybrid Nanocarbon as a Catalyst for Direct Dehydrogenation of Propane: Formation of an Active and Selective Core-Shell sp ² /sp ³ Nanocomposite Structure. <i>Chemistry - A European Journal</i> , 2014, 20, 6324-6331.	1.7	107
40	The Nucleophilicity of the Oxygen Functional Groups on Carbon Materials: A DFT Analysis. <i>Chemistry - A European Journal</i> , 2014, 20, 7890-7894.	1.7	46
41	Laser-induced graphitization of colloidal nanodiamonds for excellent oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2411-2416.	1.3	14

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42	Nitrobenzene reduction catalyzed by carbon: does the reaction really belong to carbocatalysis?. <i>Catalysis Science and Technology</i> , 2014, 4, 4183-4187.	2.1	42
43	The first principles studies on the reaction pathway of the oxidative dehydrogenation of ethane on the undoped and doped carbon catalyst. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5287.	5.2	45
44	Nanodiamond/carbon nitride hybrid nanoarchitecture as an efficient metal-free catalyst for oxidant- and steam-free dehydrogenation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13442-13451.	5.2	67
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48	The Catalytic Pathways of Hydrohalogenation over Metal-Free Nitrogen-Doped Carbon Nanotubes. <i>ChemSusChem</i> , 2014, 7, 723-728.	3.6	114
49	Growth mechanism of N-doped graphene materials and their catalytic behavior in the selective oxidation of ethylbenzene. <i>Chinese Journal of Catalysis</i> , 2014, 35, 922-928.	6.9	32
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51	Oxidative dehydrogenation of propane over nanodiamond modified by molybdenum oxide. <i>Journal of Molecular Catalysis A</i> , 2014, 392, 315-320.	4.8	20
53	Metal-Free Carbonaceous Materials as Promising Heterogeneous Catalysts. <i>ChemCatChem</i> , 2015, 7, 2765-2787.	1.8	118
55	Stabilization of Palladium Nanoparticles on Nanodiamond-Graphene Core-Shell Supports for CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15823-15826.	7.2	74
56	Self-assembled graphene aerogel and nanodiamond hybrids as high performance catalysts in oxidative propane dehydrogenation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24379-24388.	5.2	46
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64	Phosphorous-modified ordered mesoporous carbon for catalytic dehydrogenation of propane to propylene. RSC Advances, 2015, 5, 56304-56310.	1.7	28
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66	Macroscopic nanodiamonds/ β -SiC composite as metal-free catalysts for steam-free dehydrogenation of ethylbenzene to styrene. Applied Catalysis A: General, 2015, 499, 217-226.	2.2	53
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70	Direct dehydrogenation of isobutane to isobutene over carbon catalysts. Chinese Journal of Catalysis, 2015, 36, 1214-1222.	6.9	13
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85	A Facile and Efficient Method to Fabricate Highly Selective Nanocarbon Catalysts for Oxidative Dehydrogenation. <i>ChemSusChem</i> , 2017, 10, 353-358.	3.6	19
86	Metal-free carbon materials-catalyzed sulfate radical-based advanced oxidation processes: A review on heterogeneous catalysts and applications. <i>Chemosphere</i> , 2017, 189, 224-238.	4.2	320
87	Impact of Carboxyl Groups in Graphene Oxide on Chemoselective Alcohol Oxidation with Ultra-Low Carbocatalyst Loading. <i>Scientific Reports</i> , 2017, 7, 3146.	1.6	22
88	Comprehensive Understanding of the Effects of Carbon Nanostructures on Redox Catalytic Properties and Stability in Oxidative Dehydrogenation. <i>ACS Catalysis</i> , 2017, 7, 5257-5267.	5.5	24
89	Carbocatalysis in Liquid-Phase Reactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 936-964.	7.2	209
90	Castanea mollissima shell-derived porous carbons as metal-free catalysts for highly efficient dehydrogenation of propane to propylene. <i>Catalysis Today</i> , 2018, 316, 214-222.	2.2	36
91	Oxidative dehydrogenation reaction of short alkanes on nanostructured carbon catalysts: a computational account. <i>Chemical Communications</i> , 2018, 54, 864-875.	2.2	30
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123	Quo vadis carbocatalysis?. <i>Journal of Energy Chemistry</i> , 2021, 61, 219-227.	7.1	3
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134	Fully Exposed Metal Clusters: Fabrication and Application in Alkane Dehydrogenation. <i>ACS Catalysis</i> , 2022, 12, 12720-12743.	5.5	32
135	Steering Carbon Hybridization State in Carbon-Based Metal-free Catalysts for Selective and Durable CO ₂ Electroreduction. <i>ACS Catalysis</i> , 2022, 12, 15218-15229.	5.5	8
136	Preparation and Characterization of Sisal Fibre Carbon Catalyst for Propane Oxidative Dehydrogenation. <i>Catalysis Letters</i> , 0, , .	1.4	0

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