

# Recent development of methanol electrooxidation catal

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Platinum-Based Catalysts on Various Carbon Supports and Conducting Polymers for Direct Methanol Fuel Cell Applications: a Review. <i>Nanoscale Research Letters</i> , 2018, 13, 410.	5.7	189
2	Trimetallic PtPdCu nanowires as an electrocatalyst for methanol and formic acid oxidation. <i>New Journal of Chemistry</i> , 2018, 42, 19083-19089.	2.8	35
3	Pt Nanoparticles Loaded on $W_{18}O_{49}$ Nanocables@rGO Nanocomposite as a Highly Active and Durable Catalyst for Methanol Electro-Oxidation. <i>ACS Omega</i> , 2018, 3, 16850-16857.	3.5	13
4	Hierarchical nanocomposite electrocatalyst of bimetallic zeolitic imidazolate framework and MoS <sub>2</sub> sheets for non-Pt methanol oxidation and water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117970.	20.2	192
5	A Pt-polymer nanocomposite as the excellent electro-catalyst: Synthesis, characterization, and electrochemical behavior towards methanol oxidation in the alkaline media. <i>Synthetic Metals</i> , 2019, 255, 116110.	3.9	14
6	Thermally driven interfacial diffusion synthesis of nitrogen-doped carbon confined trimetallic $Pt_{3/CoRu}$ composites for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18143-18149.	10.3	29
7	High performance $Pt/Ti_{3/}O_{5/}Mo_{0.2/}Si_{0.4/}$ electrocatalyst with outstanding methanol oxidation activity. <i>Catalysis Science and Technology</i> , 2019, 9, 4118-4124.	4.1	6
8	Synergic and Antifouling Effect of ZnO on Ethanol Oxidation by Silver-Palladium Bimetallic Electrocatalyst. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2556-A2562.	2.9	3
9	Solvothermal Synthesis of Mesoporous $3D\text{-}CuCo_{2/}O_{4/}$ Hollow Tubes as Efficient Electrocatalysts for Methanol Electro-Oxidation. <i>ChemCatChem</i> , 2019, 11, 6078-6085.	3.7	9
10	A Highly Efficient and Stable Copper BTC Metal Organic Framework Derived Electrocatalyst for Oxidation of Methanol in DMFC Application. <i>Catalysis Letters</i> , 2019, 149, 3312-3327.	2.6	59
11	Superior catalytic performance of NiCo <sub>2</sub> O <sub>4</sub> nanorods loaded rGO towards methanol electro-oxidation and hydrogen evolution reaction. <i>Journal of Molecular Liquids</i> , 2019, 291, 111306.	4.9	47
12	Mechanistic Insights into Cyclic Voltammograms on Pt(111): Kinetics Simulations. <i>ChemPhysChem</i> , 2019, 20, 2791-2798.	2.1	4
13	Using a multiway chemometric tool in the evaluation of methanol electro-oxidation mechanism. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113598.	3.8	3
14	A promising Modification of Pt Surfaces with CNTs for Decreasing Poisoning Impact in Direct Methanol Fuel Cells. <i>International Journal of Electrochemical Science</i> , 2019, 14, 8276-8283.	1.3	6
15	Enhanced electrocatalytic activity of palladium nanochains by modifying transition metal core-shell nanoparticles (TM <sub>core-shell</sub> = Ni@NiO, Co@CoO) on reduced graphene oxide for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2019, 321, 134688.	5.2	13
16	Applications of carbon nanotubes and graphene for third-generation solar cells and fuel cells. <i>Nano Materials Science</i> , 2019, 1, 77-90.	8.8	38
17	Carbon-Supported Pt and Pt@Ir Nanowires for Methanol Electro-Oxidation in Acidic Media. <i>Catalysis Letters</i> , 2019, 149, 2614-2626.	2.6	10
18	Pt@Ni@P nanocages with surface porosity as efficient bifunctional electrocatalysts for oxygen reduction and methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9791-9797.	10.3	63

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20	Use of palladium nanoparticles dispersed on GNS - modified with 10Åwt%CoMoO4 as efficient bifunctional electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31312-31322.	7.1	5
21	Faradaic Efficiencies for Methanol Oxidation in Proton- Exchange Membrane Electrolysis and Fuel Cells with Various Anode Catalysts. <i>International Journal of Electrochemical Science</i> , 2019, , 7016-7025.	1.3	1
22	Novel palladium-guanine-reduced graphene oxide nanocomposite as efficient electrocatalyst for methanol oxidation reaction. <i>Materials Research Bulletin</i> , 2019, 112, 213-220.	5.2	14
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24	Critical challenges in the system development of direct alcohol fuel cells as portable power supplies: An overview. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3031-3054.	7.1	140
25	Recent advances in one-dimensional nanostructures for energy electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2019, 40, 4-22.	14.0	48
26	Ternary Pt Ru C co-sputtered electrocatalysts having reaction selectivity for anodes and cathodes in direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3594-3602.	7.1	2
27	Facile synthesis and enhanced catalytic activity of electrochemically dealloyed platinumâ€“nickel nanoparticles towards formic acid electro-oxidation. <i>Journal of Energy Chemistry</i> , 2019, 35, 9-16.	12.9	21
28	Fabrication of C@Mo Ti1âˆ“O2âˆ“Î” nanocrystalline with functionalized interface as efficient and robust PtRu catalyst support for methanol electrooxidation. <i>Journal of Energy Chemistry</i> , 2020, 40, 7-14.	12.9	11
29	Platinum nanoparticles coated by graphene layers: A low-metal loading catalyst for methanol oxidation in alkaline media. <i>Journal of Energy Chemistry</i> , 2020, 40, 81-88.	12.9	38
30	Enhancing catalytic activity of rhodium towards methanol electro-oxidation in both acidic and alkaline media by alloying with iron. <i>Electrochimica Acta</i> , 2020, 330, 135178.	5.2	10
31	Efficient stabilization of in situ fabrication of PtxPd1-x nanostructures for electro-oxidation of methanol in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4570-4586.	7.1	15
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33	Significantly enhanced performance of direct methanol fuel cells at elevated temperatures. <i>Journal of Power Sources</i> , 2020, 450, 227620.	7.8	25
34	PdMn and PdFe nanoparticles over a reduced graphene oxide carrier for methanol electro-oxidation under alkaline conditions. <i>Ionics</i> , 2020, 26, 2421-2433.	2.4	13
35	High quality electrocatalyst by Pdâ€“Pt alloys nanoparticles uniformly distributed on polyaniline/carbon nanotubes for effective methanol oxidation. <i>Nanotechnology</i> , 2020, 31, 135703.	2.6	10
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38	Key technologies for polymer electrolyte membrane fuel cell systems fueled impure hydrogen. Progress in Natural Science: Materials International, 2020, 30, 751-763.	4.4	37
39	Honeycombed-like nanosheet array composite NiCo <sub>2</sub> O <sub>4</sub> /rGO for efficient methanol electrooxidation and supercapacitors. Electrochimica Acta, 2020, 362, 137145.	5.2	48
40	Nickel nanocrystal/nitrogen-doped carbon composites as efficient and carbon monoxide-resistant electrocatalysts for methanol oxidation reactions. Nanoscale, 2020, 12, 21687-21694.	5.6	41
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42	Excellent electro-oxidation of methanol and ethanol in alkaline media: Electrodeposition of the NiMoP metallic nano-particles on/in the ERGO layers/CE. International Journal of Hydrogen Energy, 2020, 45, 27263-27278.	7.1	16
43	Highly active Ag/C nanoparticles containing ultra-low quantities of sub-surface Pt for the electrooxidation of glycerol in alkaline media. Applied Catalysis B: Environmental, 2020, 279, 119369.	20.2	33
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45	Fabrication of layered porous TiO <sub>2</sub> /carbon fiber paper decorated by Pt nanoparticles using atomic layer deposition for efficient methanol electro-oxidation. Journal of Electroanalytical Chemistry, 2020, 874, 114468.	3.8	18
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58	Coke-Free Oxidation of Methanol in Solid Oxide Fuel Cells with Heterogeneous Nickel-Palladium Catalysts Prepared by Atomic Layer Deposition. ACS Sustainable Chemistry and Engineering, 2020, 8, 10529-10535.	6.7	18
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78	Direct dimethyl ether fuel cells (DDMEFCs). , 2021, , 177-189.		0
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87	Manganese dioxides for oxygen electrocatalysis in energy conversion and storage systems over full pH range. <i>Journal of Power Sources</i> , 2021, 494, 229779.	7.8	37
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89	Characterization and Electrocatalytic Features of PtPd and PdPt Bimetallic Nanoparticles for Methanol Electro-oxidation. <i>ChemNanoMat</i> , 2021, 7, 958-965.	2.8	8
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93	Co <sub>3</sub> O <sub>4</sub> /Ni K <sup>+</sup> p <sup>1/4</sup> k Nanokompozitlerinin Doğrudan Metanol Yakıt H <sub>2</sub> 1/4cresinde Elektrot Malzemesi Olarak Kullanılması. Journal of the Institute of Science and Technology, 0, , 1354-1361.	0.9	0
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107	Effects of silver nanoparticles-polysaccharide on bleomycin-induced pulmonary fibrosis in rats. Journal of Pharmacy and Pharmacology, 2021, 73, 1503-1512.	2.4	3
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135	Review and Development of Anode Electrocatalyst Carriers for Direct Methanol Fuel Cell. <i>Energy Technology</i> , 2022, 10, .	3.8	22
136	One-step fabrication of bimetallic PtPd mesoporous nanospheres for methanol electrooxidation. <i>Journal of Electroanalytical Chemistry</i> , 2022, 911, 116197.	3.8	6
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