

# Dong-sheng Geng

## List of Publications by Year in descending order

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110  
papers

10,103  
citations

41344

49  
h-index

32842

100  
g-index

114  
all docs

114  
docs citations

114  
times ranked

14116  
citing authors

#	ARTICLE	IF	CITATIONS
1	High oxygen-reduction activity and durability of nitrogen-doped graphene. Energy and Environmental Science, 2011, 4, 760.	30.8	1,153
2	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. Scientific Reports, 2013, 3, .	3.3	719
3	Nitrogen doping effects on the structure of graphene. Applied Surface Science, 2011, 257, 9193-9198.	6.1	476
4	Ultrathin MoS <sub>2</sub> /Nitrogen-Doped Graphene Nanosheets with Highly Reversible Lithium Storage. Advanced Energy Materials, 2013, 3, 839-844.	19.5	440
5	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. Advanced Functional Materials, 2012, 22, 1647-1654.	14.9	384
6	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. Angewandte Chemie - International Edition, 2011, 50, 422-426.	13.8	344
7	Layer by layer assembly of sandwiched graphene/SnO <sub>2</sub> nanorod/carbon nanostructures with ultrahigh lithium ion storage properties. Energy and Environmental Science, 2013, 6, 2900.	30.8	335
8	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. Electrochemistry Communications, 2011, 13, 822-825.	4.7	315
9	From Lithium-Oxygen to Lithium-Air Batteries: Challenges and Opportunities. Advanced Energy Materials, 2016, 6, 1502164.	19.5	296
10	Superior energy capacity of graphene nanosheets for a nonaqueous lithium-oxygen battery. Chemical Communications, 2011, 47, 9438.	4.1	293
11	Nitrogen-doped carbon nanotubes as cathode for lithium-air batteries. Electrochemistry Communications, 2011, 13, 668-672.	4.7	261
12	Nitrogen-doped graphene nanosheets as cathode materials with excellent electrocatalytic activity for high capacity lithium-oxygen batteries. Electrochemistry Communications, 2012, 18, 12-15.	4.7	248
13	Co <sub>3</sub> O <sub>4</sub> nanoparticles decorated carbon nanofiber mat as binder-free air-cathode for high performance rechargeable zinc-air batteries. Nanoscale, 2015, 7, 1830-1838.	5.6	226
14	3D porous LiFePO <sub>4</sub> /graphene hybrid cathodes with enhanced performance for Li-ion batteries. Journal of Power Sources, 2012, 208, 340-344.	7.8	201
15	Understanding the high-electrocatalytic performance of two-dimensional MoS <sub>2</sub> nanosheets and their composite materials. Journal of Materials Chemistry A, 2017, 5, 24540-24563.	10.3	183
16	High concentration nitrogen doped carbon nanotube anodes with superior Li <sup>+</sup> storage performance for lithium rechargeable battery application. Journal of Power Sources, 2012, 197, 238-245.	7.8	158
17	Facile controlled synthesis and growth mechanisms of flower-like and tubular MnO <sub>2</sub> nanostructures by microwave-assisted hydrothermal method. Journal of Colloid and Interface Science, 2012, 369, 123-128.	9.4	141
18	Atomic layer deposition for nanomaterial synthesis and functionalization in energy technology. Materials Horizons, 2017, 4, 133-154.	12.2	141

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19	Defect-Rich Crystalline SnO <sub>2</sub> Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22149-22156.	3.1	138
20	Discharge product morphology and increased charge performance of lithium-oxygen batteries with graphene nanosheet electrodes: the effect of sulphur doping. <i>Journal of Materials Chemistry</i> , 2012, 22, 20170.	6.7	136
21	Hierarchically porous LiFePO <sub>4</sub> /nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 7537.	6.7	135
22	Potential of metal-free $\alpha$ -graphene alloy as electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1795-1810.	10.3	133
23	Nitrogen-doped carbon nanotubes with high activity for oxygen reduction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2258-2265.	7.1	128
24	One-pot synthesis of MnO <sub>2</sub> /graphene/carbon nanotube hybrid by chemical method. <i>Carbon</i> , 2011, 49, 4434-4442.	10.3	125
25	Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts. <i>Chemistry - A European Journal</i> , 2010, 16, 829-835.	3.3	117
26	Hierarchical nanostructured core-shell Sn@C nanoparticles embedded in graphene nanosheets: spectroscopic view and their application in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3535.	2.8	113
27	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. <i>Journal of Power Sources</i> , 2011, 196, 1795-1801.	7.8	105
28	Eggplant-derived microporous carbon sheets: towards mass production of efficient bifunctional oxygen electrocatalysts at low cost for rechargeable Zn-air batteries. <i>Chemical Communications</i> , 2015, 51, 8841-8844.	4.1	104
29	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. <i>Nanotechnology</i> , 2011, 22, 165602.	2.6	90
30	Tellurium@Ordered Macroporous Carbon Composite and Free-Standing Tellurium Nanowire Mat as Cathode Materials for Rechargeable Lithium-Tellurium Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401999.	19.5	83
31	Building better lithium-sulfur batteries: from LiNO <sub>3</sub> to solid oxide catalyst. <i>Scientific Reports</i> , 2016, 6, 33154.	3.3	77
32	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18330-18337.	3.1	75
33	Metallic 1T-MoS <sub>2</sub> nanosheets and their composite materials: Preparation, properties and emerging applications. <i>Materials Today Energy</i> , 2018, 10, 264-279.	4.7	75
34	Light-Activated Covalent Formation of Gold Nanoparticle-Graphene and Gold Nanoparticle-Glass Composites. <i>Langmuir</i> , 2011, 27, 13261-13268.	3.5	68
35	One-pot solvothermal synthesis of doped graphene with the designed nitrogen type used as a Pt support for fuel cells. <i>Electrochemistry Communications</i> , 2012, 22, 65-68.	4.7	66
36	Chemically modified graphene and nitrogen-doped graphene: Electrochemical characterisation and sensing applications. <i>Electrochimica Acta</i> , 2013, 114, 533-542.	5.2	65

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37	Manganese Oxide Catalyst Grown on Carbon Paper as an Air Cathode for High-Performance Rechargeable Zinc-Air Batteries. <i>ChemPlusChem</i> , 2015, 80, 1341-1346.	2.8	65
38	Systematic synthesis of ZIF-67 derived Co <sub>3</sub> O <sub>4</sub> and N-doped carbon composite for supercapacitors via successive oxidation and carbonization. <i>Electrochimica Acta</i> , 2021, 376, 137986.	5.2	64
39	Three-dimensional hierarchical interwoven nitrogen-doped carbon nanotubes/CoxNi <sub>1-x</sub> -layered double hydroxides ultrathin nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 203, 21-29.	5.2	63
40	Insight into the correlation of Pt-support interactions with electrocatalytic activity and durability in fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9420-9446.	10.3	62
41	Microwave-assisted hydrothermal synthesis of nanostructured spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2012, 63, 100-104.	5.2	59
42	Controllable atomic layer deposition of one-dimensional nanotubular TiO <sub>2</sub> . <i>Applied Surface Science</i> , 2013, 266, 132-140.	6.1	58
43	Carbon black cathodes for lithium oxygen batteries: Influence of porosity and heteroatom-doping. <i>Carbon</i> , 2013, 64, 170-177.	10.3	58
44	Achieving High-Performance Silicon Anodes of Lithium-Ion Batteries via Atomic and Molecular Layer Deposited Surface Coatings: an Overview. <i>Electrochimica Acta</i> , 2017, 251, 710-728.	5.2	58
45	Influence of paper thickness on the electrochemical performances of graphene papers as an anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 91, 227-233.	5.2	56
46	Controlled synthesis of Zirconium Oxide on graphene nanosheets by atomic layer deposition and its growth mechanism. <i>Carbon</i> , 2013, 52, 74-82.	10.3	55
47	High performance NiO nanosheets anchored on three-dimensional nitrogen-doped carbon nanotubes as a binder-free anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10940-10947.	10.3	55
48	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15967-15974.	7.1	51
49	Atomic and Molecular Layer Deposition for Superior Lithium-Sulfur Batteries: Strategies, Performance, and Mechanisms. <i>Batteries and Supercaps</i> , 2018, 1, 41-68.	4.7	50
50	Size-controlled synthesis of colloidal platinum nanoparticles and their activity for the electrocatalytic oxidation of carbon monoxide. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 159-166.	9.4	47
51	Dependence of Onset Potential for Methanol Electrocatalytic Oxidation on Steric Location of Active Center in Multicomponent Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11897-11902.	3.1	47
52	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. <i>Sustainable Energy and Fuels</i> , 2019, 3, 611-655.	4.9	47
53	Fabrication of MoS <sub>2</sub> -Graphene Nanocomposites by Layer-by-Layer Manipulation for High-Performance Lithium Ion Battery Anodes. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M3034-M3039.	1.8	46
54	Efficient electrocatalytic reduction of CO <sub>2</sub> to CO on an electrodeposited Zn porous network. <i>Electrochemistry Communications</i> , 2018, 97, 87-90.	4.7	44

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55	A simple solution-phase reduction method for the synthesis of shape-controlled platinum nanoparticles. <i>Materials Letters</i> , 2005, 59, 1567-1570.	2.6	42
56	Cobalt sulfide nanoparticles impregnated nitrogen and sulfur co-doped graphene as bifunctional catalyst for rechargeable Zn-air batteries. <i>RSC Advances</i> , 2015, 5, 7280-7284.	3.6	42
57	Facile assembly of Ni(OH) <sub>2</sub> nanosheets on nitrogen-doped carbon nanotubes network as high-performance electrocatalyst for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2018, 731, 766-773.	5.5	42
58	Improved rate capability of a LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> /CNT/graphene hybrid material for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 24359-24367.	3.6	40
59	Palladium-Cobalt Nanowires Decorated with Jagged Appearance for Efficient Methanol Electro-oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29965-29971.	8.0	40
60	Co <sub>3</sub> O <sub>4</sub> nanoparticles grown on N-doped Vulcan carbon as a scalable bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>RSC Advances</i> , 2015, 5, 75773-75780.	3.6	39
61	Activity and Durability of Ternary PtRu <sub>1</sub> C for Methanol Electro-oxidation. <i>Journal of the Electrochemical Society</i> , 2009, 156, B397.	2.9	36
62	Recent advances in enzyme-free electrochemical hydrogen peroxide sensors based on carbon hybrid nanocomposites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6970-6990.	5.5	36
63	Improved Electrocatalytic Performance in Overall Water Splitting with Rational Design of Hierarchical Co <sub>3</sub> O <sub>4</sub> @NiFe Layered Double Hydroxide Core-Shell Nanostructure. <i>ChemElectroChem</i> , 2018, 5, 1357-1363.	3.4	34
64	Unravelling the synergy effects of defect-rich 1T-MoS <sub>2</sub> /carbon nanotubes for the hydrogen evolution reaction by experimental and calculational studies. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2100-2110.	4.9	34
65	Steam reforming of acetic acid over Ni KOH/Al <sub>2</sub> O <sub>3</sub> catalyst with low nickel loading: The remarkable promotional effects of KOH on activity. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 729-747.	7.1	31
66	Recent progress in cobalt-based compounds as high-performance anode materials for lithium ion batteries. <i>Rare Metals</i> , 2017, 36, 307-320.	7.1	30
67	Cobalt oxide nanosheets anchored onto nitrogen-doped carbon nanotubes as dual purpose electrodes for lithium-ion batteries and oxygen evolution reaction. <i>International Journal of Energy Research</i> , 2018, 42, 853-862.	4.5	30
68	Size effect of gold nanoparticles on the electrocatalytic oxidation of carbon monoxide in alkaline solution. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1145-1151.	1.9	29
69	Atomic-scale tuned interface of nickel-rich cathode for enhanced electrochemical performance in lithium-ion batteries. <i>Journal of Materials Science and Technology</i> , 2020, 54, 77-86.	10.7	29
70	Electrocatalytic oxidation of carbon monoxide on platinum-modified polyaniline film electrodes. <i>Thin Solid Films</i> , 2006, 497, 309-314.	1.8	26
71	Steam reforming of carboxylic acids for hydrogen generation: Effects of aliphatic chain of the acids on their reaction behaviors. <i>Molecular Catalysis</i> , 2018, 450, 1-13.	2.0	23
72	N-containing functional groups induced superior cytocompatible and hemocompatible graphene by NH <sub>2</sub> ion implantation. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2741-2748.	3.6	22

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73	Hydrogenation of fourteen biomass-derived phenolics in water and in methanol: their distinct reaction behaviours. <i>Sustainable Energy and Fuels</i> , 2018, 2, 751-758.	4.9	22
74	Assemblage of Perovskite $\text{LaNiO}_3$ Connected With In Situ Grown Nitrogen-Doped Carbon Nanotubes as High-Performance Electrocatalyst for Oxygen Evolution Reaction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800380.	1.8	20
75	Nitrogen ion implanted graphene as thrombo-protective safer and cytoprotective alternative for biomedical applications. <i>Carbon</i> , 2013, 61, 321-328.	10.3	19
76	First-principles studies on the electronic and optical properties of Fe-doped potassium dihydrogen phosphate crystal. <i>Computational Materials Science</i> , 2018, 143, 398-402.	3.0	16
77	$\text{NH}_2^+$ implantations induced superior hemocompatibility of carbon nanotubes. <i>Nanoscale Research Letters</i> , 2013, 8, 205.	5.7	14
78	Batteries: Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage ( <i>Adv. Funct. Mater.</i> 8/2012). <i>Advanced Functional Materials</i> , 2012, 22, 1646-1646.	14.9	13
79	One-Pot Synthesis of Highly Efficient Carbon-Supported Polyhedral $\text{Pt}_3\text{Ni}$ Alloy Nanoparticles for Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2019, 10, 613-620.	3.0	12
80	Dendritic Ag/Pd Alloy Nanostructure Arrays for Electrochemical $\text{CO}_2$ Reduction. <i>ChemElectroChem</i> , 2020, 7, 2608-2613.	3.4	12
81	pH induced size-selected synthesis of PtRu nanoparticles, their characterization and electrocatalytic properties. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 42-49.	4.8	11
82	A strain or electric field induced direct bandgap in ultrathin silicon film and its application in photovoltaics or photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7156-7162.	2.8	11
83	Enhanced Charge Storage Mechanism and Long-Term Cycling Stability in Diamondized Titania Nanocomposite Supercapacitors Operating in Aqueous Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15698-15712.	3.1	11
84	Designed Growth and Characterization of Radially Aligned $\text{Ti}_5\text{Si}_3$ Nanowire Architectures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15885-15889.	3.1	10
85	Investigation on the Cyclability of Lithium-Oxygen Cells in a Confined Potential Window using Cathodes with Pre-filled Discharge Products. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2182-2189.	3.3	10
86	Planar Fully Stretchable Lithium-Ion Batteries Based on a Lamellar Conductive Elastomer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53774-53780.	8.0	10
87	Tailoring atomically dispersed cobalt-nitrogen active sites in wrinkled carbon nanosheets via $\text{CO}_2$ laser ablation for highly sensitive detection of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3190-3200.	10.3	9
88	Inside Cover: Direct Growth of Single-Crystal Pt Nanowires on $\text{Sn@CNT}$ Nanocable: 3D Electrodes for Highly Active Electrocatalysts ( <i>Chem. Eur. J.</i> 3/2010). <i>Chemistry - A European Journal</i> , 2010, 16, 732-732.	3.3	7
89	Destabilization of Thiolated Gold Clusters for the Growth of Single-Crystalline Gold Nanoparticles and Their Self-Assembly for SERS Detection. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 588-595.	2.3	7
90	Enhanced Electrochemical Reduction of $\text{CO}_2$ to $\text{CO}$ on $\text{Ag/SnO}_2$ by a Synergistic Effect of Morphology and Structural Defects. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2694-2701.	3.3	7

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91	Nitrogen-doped carbon nanotubes self-catalytically grown on desert sands towards water purification. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	4
92	Self-reconstruction-induced $\text{CoSe}_2$ coupled with $\text{Co}(\text{OH})_2$ from $\text{Co}_0.85\text{Se}$ For efficient HER Electro catalysis in alkaline media. <i>International Journal of Energy Research</i> , 2022, 46, 12476-12484.	4.5	4
93	Temperature-Induced Structure Transformation from $\text{Co}_{0.85}\text{Se}$ to Orthorhombic Phase $\text{CoSe}_2$ Realizing Enhanced Hydrogen Evolution Catalysis. <i>ACS Omega</i> , 2022, 7, 15901-15908.	3.5	4
94	Hierarchical Hybrid of Few-Layer Graphene upon Tungsten Monocarbide Nanowires: Controlled Synthesis and Electrocatalytic Performance for Methanol Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 328-337.	5.1	3
95	Facile solid-state synthesis of heteroatom-doped and alkaline-treated bismuth vanadate for photocatalyzing methylene blue degradation and water oxidation. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105180.	4.0	3
96	Titelbild: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal ( <i>Angew. Chem.</i> 2/2011). <i>Angewandte Chemie</i> , 2011, 123, 341-341.	2.0	2
97	Atomic and Molecular Layer Deposition for Superior Lithium-Sulfur Batteries: Strategies, Performance, and Mechanisms. <i>Batteries and Supercaps</i> , 2018, 1, 40-40.	4.7	2
98	Cover Picture: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal ( <i>Angew. Chem. Int. Ed.</i> 2/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 325-325.	13.8	1
99	Correlation of composition, cooling rate and superheating temperature with solidification behaviors and microstructures of $\text{Al-Bi-Sn}$ ribbons. <i>Materials Research Express</i> , 2019, 6, 066539.	1.6	1
100	Building well-defined hierarchical nanostructures for sulfur and silicon electrodes. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 672-678.	4.4	1
101	Coral-Like $\text{Ni}_2\text{P-Ni}_5\text{P}_4$ Polymorphs as Noble Metal-Free Catalysts for Efficient Water Splitting. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 085004.	1.8	1
102	Graphene and N-Doped Graphene as Cathodes for Li-Air Batteries. <i>ECS Meeting Abstracts</i> , 2012, , .	0.0	0
103	Improved Electrocatalytic Performance in Overall Water Splitting with Rational Design of Hierarchical $\text{Co}_3\text{O}_4 @ \text{NiFe}$ Layered Double Hydroxide Core-Shell Nanostructure. <i>ChemElectroChem</i> , 2018, 5, 1339-1339.	3.4	0
104	In-Situ Electrochemical Construction of Stable Water Oxidation Catalysts. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1222-1222.	0.0	0
105	Monolayer Iridium Nanoparticles Coated $\text{TiO}_2$ Core-Shell Architecture as Efficient Oxygen Evolution Reaction Electrocatalyst. <i>ChemistrySelect</i> , 2021, 6, 9134-9138.	1.5	0
106	Stable Water Oxidation Catalysts Based on in-situ Electrochemical Transition of Nickel Phosphate. <i>Catalysis Letters</i> , 0, , 1.	2.6	0
107	Interfacial Design of Metallic $1\text{T-MoS}_2$ /Carbon Nanotubes for High-Electrocatalytic Hydrogen Evolution Performance. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
108	Pt Nanowires with High Catalytic Activity and Durability Towards Methanol Oxidation Reaction. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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109	Dendritic Silver/Palladium Alloy Arrays for Electrochemical CO <sub>2</sub> Reduction. ECS Meeting Abstracts, 2020, MA2020-01, 2632-2632.	0.0	0
110	Facet-Dependent Selectivity of Cuprous Oxide/Silver Tandem Catalysts for Promoting C <sub>2</sub> H <sub>4</sub> Production from Electrochemical CO <sub>2</sub> Reduction. ECS Meeting Abstracts, 2022, MA2022-01, 1700-1700.	0.0	0