Dong-sheng Geng

List of Publications by Year
in descending order

110	10,103	41344 49	32842 100
papers	citations	h-index	g-index

114	114	114	14116
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tailoring atomically dispersed cobaltâ€“nitrogen active sites in wrinkled carbon nanosheets via â€œfenceâ€•isolation for highly sensitive detection of hydrogen peroxide. Journal of Materials Chemistry A, 2022, 10, 3190-3200.	10.3	9
2	Selfâ€•reconstructionâ€•induced <scp> câ€CoSe ₂ </scp> coupled with co(<scp>OH</scp>) ₂ from Co _{0.} <scp> ₈₅ Se </scp> For efficient <scp>HER</scp> Electrocatalysis in alkaline media. International Journal of Energy Research, 2022, 46, 12476-12484.	4.5	4
3	Temperature-Induced Structure Transformation from Co_{0.85}Se to Orthorhombic Phase CoSe₂ Realizing Enhanced Hydrogen Evolution Catalysis. ACS Omega, 2022, 7, 15901-15908.	3.5	4
4	Facet-Dependent Selectivity of Cuprous Oxide/Silver Tandem Catalysts for Promoting C₂H₄ Production from Electrochemical CO₂ Reduction. ECS Meeting Abstracts, 2022, MA2022-01, 1700-1700.	0.0	0
5	Recent advances in enzyme-free electrochemical hydrogen peroxide sensors based on carbon hybrid nanocomposites. Journal of Materials Chemistry C, 2021, 9, 6970-6990.	5.5	36
6	Systematic synthesis of ZIF-67 derived Co3O4 and N-doped carbon composite for supercapacitors via successive oxidation and carbonization. Electrochimica Acta, 2021, 376, 137986.	5.2	64
7	In-Situ Electrochemical Construction of Stable Water Oxidation Catalysts. ECS Meeting Abstracts, 2021, MA2021-01, 1222-1222.	0.0	0
8	Enhanced Electrochemical Reduction of CO₂to CO on Ag/SnO₂by a Synergistic Effect of Morphology and Structural Defects. Chemistry - an Asian Journal, 2021, 16, 2694-2701.	3.3	7
9	Coral-Like Ni2P-Ni5P4 Polymorphs as Noble Metal-Free Catalysts for Efficient Water Splitting. ECS Journal of Solid State Science and Technology, 2021, 10, 085004.	1.8	1
10	Monolayer Iridium Nanoparticles Coated TiO 2 Coreâ€•Shell Architecture as Efficient Oxygen Evolution Reaction Electrocatalyst. ChemistrySelect, 2021, 6, 9134-9138.	1.5	0
11	Planar Fully Stretchable Lithium-Ion Batteries Based on a Lamellar Conductive Elastomer. ACS Applied Materials & Interfaces, 2020, 12, 53774-53780.	8.0	10
12	Dendritic Ag/Pd Alloy Nanostructure Arrays for Electrochemical CO 2 Reduction. ChemElectroChem, 2020, 7, 2608-2613.	3.4	12
13	Atomic-scale tuned interface of nickel-rich cathode for enhanced electrochemical performance in lithium-ion batteries. Journal of Materials Science and Technology, 2020, 54, 77-86.	10.7	29
14	Enhanced Charge Storage Mechanism and Long-Term Cycling Stability in Diamondized Titania Nanocomposite Supercapacitors Operating in Aqueous Electrolytes. Journal of Physical Chemistry C, 2020, 124, 15698-15712.	3.1	11
15	Insight into the correlation of Ptâ€“support interactions with electrocatalytic activity and durability in fuel cells. Journal of Materials Chemistry A, 2020, 8, 9420-9446.	10.3	62
16	Facile solid-state synthesis of heteroatom-doped and alkaline-treated bismuth vanadate for photocatalyzing methylene blue degradation and water oxidation. Materials Science in Semiconductor Processing, 2020, 117, 105180.	4.0	3
17	Dendritic Silver/Palladium Alloy Arrays for Electrochemical CO2 Reduction. ECS Meeting Abstracts, 2020, MA2020-01, 2632-2632.	0.0	0
18	One-Pot Synthesis of Highly Efficient Carbon-Supported Polyhedral Pt3Ni Alloy Nanoparticles for Oxygen Reduction Reaction. Electrocatalysis, 2019, 10, 613-620.	3.0	12

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19	Hierarchical Hybrid of Few-Layer Graphene upon Tungsten Monocarbide Nanowires: Controlled Synthesis and Electrocatalytic Performance for Methanol Oxidation. ACS Applied Energy Materials, 2019, 2, 328-337.	5.1	3
20	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. Sustainable Energy and Fuels, 2019, 3, 611-655.	4.9	47
21	Nitrogen-doped carbon nanotubes self-catalytically grown on desert sands towards water purification. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	4
22	Unravelling the synergy effects of defect-rich 1T-MoS₂/carbon nanotubes for the hydrogen evolution reaction by experimental and calculational studies. Sustainable Energy and Fuels, 2019, 3, 2100-2110.	4.9	34
23	Correlation of composition, cooling rate and superheating temperature with solidification behaviors and microstructures of Alâ€“Biâ€“Sn ribbons. Materials Research Express, 2019, 6, 066539.	1.6	1
24	Building well-defined hierarchical nanostructures for sulfur and silicon electrodes. Progress in Natural Science: Materials International, 2019, 29, 672-678.	4.4	1
25	Steam reforming of acetic acid over Ni KOH/Al2O3 catalyst with low nickel loading: The remarkable promotional effects of KOH on activity. International Journal of Hydrogen Energy, 2019, 44, 729-747.	7.1	31
26	Interfacial Design of Metallic 1T-MoS2/Carbon Nanotubes for High-Electrocatalytic Hydrogen Evolution Performance. ECS Meeting Abstracts, 2019, , .	0.0	0
27	Pt Nanowires with High Catalytic Activity and Durability Towards Methanol Oxidation Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
28	Improved Electrocatalytic Performance in Overall Water Splitting with Rational Design of Hierarchical Co₃O₄@NiFe Layered Double Hydroxide Coreâ€Shell Nanostructure. ChemElectroChem, 2018, 5, 1357-1363.	3.4	34
29	Hydrogenation of fourteen biomass-derived phenolics in water and in methanol: their distinct reaction behaviours. Sustainable Energy and Fuels, 2018, 2, 751-758.	4.9	22
30	Improved Electrocatalytic Performance in Overall Water Splitting with Rational Design of Hierarchical Co₃O₄@NiFe Layered Double Hydroxide Coreâ€“Shell Nanostructure. ChemElectroChem, 2018, 5, 1339-1339.	3.4	0
31	Steam reforming of carboxylic acids for hydrogen generation: Effects of aliphatic chain of the acids on their reaction behaviors. Molecular Catalysis, 2018, 450, 1-13.	2.0	23
32	Facile assembly of Ni(OH)2 nanosheets on nitrogen-doped carbon nanotubes network as high-performance electrocatalyst for oxygen evolution reaction. Journal of Alloys and Compounds, 2018, 731, 766-773.	5.5	42
33	Cobalt oxide nanosheets anchored onto nitrogen-doped carbon nanotubes as dual purpose electrodes for lithium-ion batteries and oxygen evolution reaction. International Journal of Energy Research, 2018, 42, 853-862.	4.5	30
34	First-principles studies on the electronic and optical properties of Fe-doped potassium dihydrogen phosphate crystal. Computational Materials Science, 2018, 143, 398-402.	3.0	16
35	Efficient electrocatalytic reduction of CO2 to CO on an electrodeposited Zn porous network. Electrochemistry Communications, 2018, 97, 87-90.	4.7	44
36	Metallic 1T-MoS2 nanosheets and their composite materials: Preparation, properties and emerging applications. Materials Today Energy, 2018, 10, 264-279.	4.7	75

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37	Atomic and Molecular Layer Deposition for Superior Lithium-Sulfur Batteries: Strategies, Performance, and Mechanisms. Batteries and Supercaps, 2018, 1, 40-40.	4.7	2
38	Palladiumâ€“Cobalt Nanowires Decorated with Jagged Appearance for Efficient Methanol Electro-oxidation. ACS Applied Materials & Interfaces, 2018, 10, 29965-29971.	8.0	40
39	Assemblage of Perovskite LaNiO₃ Connected With In Situ Grown Nitrogenâ€Doped Carbon Nanotubes as Highâ€Performance Electrocatalyst for Oxygen Evolution Reaction. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800380.	1.8	20
40	Atomic and Molecular Layer Deposition for Superior Lithiumâ€Sulfur Batteries: Strategies, Performance, and Mechanisms. Batteries and Supercaps, 2018, 1, 41-68.	4.7	50
41	Improved rate capability of a LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂/CNT/graphene hybrid material for Li-ion batteries. RSC Advances, 2017, 7, 24359-24367.	3.6	40
42	Recent progress in cobalt-based compounds as high-performance anode materials for lithium ion batteries. Rare Metals, 2017, 36, 307-320.	7.1	30
43	Atomic layer deposition for nanomaterial synthesis and functionalization in energy technology. Materials Horizons, 2017, 4, 133-154.	12.2	141
44	Achieving High-Performance Silicon Anodes of Lithium-Ion Batteries via Atomic and Molecular Layer Deposited Surface Coatings: an Overview. Electrochimica Acta, 2017, 251, 710-728.	5.2	58
45	Understanding the high-electrocatalytic performance of two-dimensional MoS₂ nanosheets and their composite materials. Journal of Materials Chemistry A, 2017, 5, 24540-24563.	10.3	183
46	Three-dimensional hierarchical interwoven nitrogen-doped carbon nanotubes/CoxNi1-x-layered double hydroxides ultrathin nanosheets for high-performance supercapacitors. Electrochimica Acta, 2016, 203, 21-29.	5.2	63
47	Building better lithium-sulfur batteries: from LiNO3 to solid oxide catalyst. Scientific Reports, 2016, 6, 33154.	3.3	77
48	High performance NiO nanosheets anchored on three-dimensional nitrogen-doped carbon nanotubes as a binder-free anode for lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 10940-10947.	10.3	55
49	A strain or electric field induced direct bandgap in ultrathin silicon film and its application in photovoltaics or photocatalysis. Physical Chemistry Chemical Physics, 2016, 18, 7156-7162.	2.8	11
50	From Lithiumâ€Oxygen to Lithiumâ€Air Batteries: Challenges and Opportunities. Advanced Energy Materials, 2016, 6, 1502164.	19.5	296
51	Investigation on the Cyclability of Lithiumâ€Oxygen Cells in a Confined Potential Window using Cathodes with Preâ€filled Discharge Products. Chemistry - an Asian Journal, 2015, 10, 2182-2189.	3.3	10
52	Manganese Oxide Catalyst Grown on Carbon Paper as an Air Cathode for Highâ€Performance Rechargeable Zincâ€“Air Batteries. ChemPlusChem, 2015, 80, 1341-1346.	2.8	65
53	Destabilization of Thiolated Gold Clusters for the Growth of Singleâ€Crystalline Gold Nanoparticles and Their Selfâ€Assembly for SERS Detection. Particle and Particle Systems Characterization, 2015, 32, 588-595.	2.3	7
54	Tellurium@Ordered Macroporous Carbon Composite and Freeâ€Standing Tellurium Nanowire Mat as Cathode Materials for Rechargeable Lithiumâ€“Tellurium Batteries. Advanced Energy Materials, 2015, 5, 1401999.	19.5	83

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55	Eggplant-derived microporous carbon sheets: towards mass production of efficient bifunctional oxygen electrocatalysts at low cost for rechargeable Znâ€“air batteries. Chemical Communications, 2015, 51, 8841-8844.	4.1	104
56	Co₃O₄nanoparticles grown on N-doped Vulcan carbon as a scalable bifunctional electrocatalyst for rechargeable zincâ€“air batteries. RSC Advances, 2015, 5, 75773-75780.	3.6	39
57	Cobalt sulfide nanoparticles impregnated nitrogen and sulfur co-doped graphene as bifunctional catalyst for rechargeable Znâ€“air batteries. RSC Advances, 2015, 5, 7280-7284.	3.6	42
58	Co₃O₄ 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
59	Potential of metal-free â€œgraphene alloyâ€•as electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 1795-1810.	10.3	133
60	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. International Journal of Hydrogen Energy, 2014, 39, 15967-15974.	7.1	51
61	Hierarchical nanostructured coreâ€“shell Sn@C nanoparticles embedded in graphene nanosheets: spectroscopic view and their application in lithium ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 3535.	2.8	113
62	N-containing functional groups induced superior cytocompatible and hemocompatible graphene by NH2 ion implantation. Journal of Materials Science: Materials in Medicine, 2013, 24, 2741-2748.	3.6	22
63	NH2+ implantations induced superior hemocompatibility of carbon nanotubes. Nanoscale Research Letters, 2013, 8, 205.	5.7	14
64	Nitrogen ion implanted graphene as thrombo-protective safer and cytoprotective alternative for biomedical applications. Carbon, 2013, 61, 321-328.	10.3	19
65	Controllable atomic layer deposition of one-dimensional nanotubular TiO2. Applied Surface Science, 2013, 266, 132-140.	6.1	58
66	Chemically modified graphene and nitrogen-doped graphene: Electrochemical characterisation and sensing applications. Electrochimica Acta, 2013, 114, 533-542.	5.2	65
67	Carbon black cathodes for lithium oxygen batteries: Influence of porosity and heteroatom-doping. Carbon, 2013, 64, 170-177.	10.3	58
68	Influence of paper thickness on the electrochemical performances of graphene papers as an anode for lithium ion batteries. Electrochimica Acta, 2013, 91, 227-233.	5.2	56
69	Ultrathin MoS₂/Nitrogenâ€Doped Graphene Nanosheets with Highly Reversible Lithium Storage. Advanced Energy Materials, 2013, 3, 839-844.	19.5	440
70	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. Scientific Reports, 2013, 3, .	3.3	719
71	Layer by layer assembly of sandwiched graphene/SnO2 nanorod/carbon nanostructures with ultrahigh lithium ion storage properties. Energy and Environmental Science, 2013, 6, 2900.	30.8	335
72	Controlled synthesis of Zirconium Oxide on graphene nanosheets by atomic layer deposition and its growth mechanism. Carbon, 2013, 52, 74-82.	10.3	55

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73	Fabrication of MoS₂-Graphene Nanocomposites by Layer-by-Layer Manipulation for High-Performance Lithium Ion Battery Anodes. ECS Journal of Solid State Science and Technology, 2013, 2, M3034-M3039.	1.8	46
74	One-pot solvothermal synthesis of doped graphene with the designed nitrogen type used as a Pt support for fuel cells. Electrochemistry Communications, 2012, 22, 65-68.	4.7	66
75	Hierarchically porous LiFePO4/nitrogen-doped carbon nanotubes composite as a cathode for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 7537.	6.7	135
76	Discharge product morphology and increased charge performance of lithiumâ€“oxygen batteries with graphene nanosheet electrodes: the effect of sulphur doping. Journal of Materials Chemistry, 2012, 22, 20170.	6.7	136
77	Defect-Rich Crystalline SnO₂ Immobilized on Graphene Nanosheets with Enhanced Cycle Performance for Li Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 22149-22156.	3.1	138
78	Graphene and N-Doped Graphene as Cathodes for Li-Air Batteries. ECS Meeting Abstracts, 2012, , .	0.0	0
79	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
80	Batteries: Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage (Adv. Funct. Mater. 8/2012). Advanced Functional Materials, 2012, 22, 1646-1646.	14.9	13
81	Facile controlled synthesis and growth mechanisms of flower-like and tubular MnO2 nanostructures by microwave-assisted hydrothermal method. Journal of Colloid and Interface Science, 2012, 369, 123-128.	9.4	141
82	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
83	Microwave-assisted hydrothermal synthesis of nanostructured spinel Li4Ti5O12 as anode materials for lithium ion batteries. Electrochimica Acta, 2012, 63, 100-104.	5.2	59
84	High concentration nitrogen doped carbon nanotube anodes with superior Li+ storage performance for lithium rechargeable battery application. Journal of Power Sources, 2012, 197, 238-245.	7.8	158
85	3D porous LiFePO4/graphene hybrid cathodes with enhanced performance for Li-ion batteries. Journal of Power Sources, 2012, 208, 340-344.	7.8	201
86	Designed Growth and Characterization of Radially Aligned Ti5Si3 Nanowire Architectures. Journal of Physical Chemistry C, 2011, 115, 15885-15889.	3.1	10
87	High oxygen-reduction activity and durability of nitrogen-doped graphene. Energy and Environmental Science, 2011, 4, 760.	30.8	1,153
88	Superior energy capacity of graphene nanosheets for a nonaqueous lithium-oxygen battery. Chemical Communications, 2011, 47, 9438.	4.1	293
89	Light-Activated Covalent Formation of Gold Nanoparticleâ€“Graphene and Gold Nanoparticleâ€“Glass Composites. Langmuir, 2011, 27, 13261-13268.	3.5	68
90	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. Nanotechnology, 2011, 22, 165602.	2.6	90

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91	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. Electrochemistry Communications, 2011, 13, 822-825.	4.7	315
92	Titelbild: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal (Angew. Chem. 2/2011). Angewandte Chemie, 2011, 123, 341-341.	2.0	2
93	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
94	Cover Picture: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal (Angew. Chem. Int. Ed. 2/2011). Angewandte Chemie - International Edition, 2011, 50, 325-325.	13.8	1
95	One-pot synthesis of MnO2/graphene/carbon nanotube hybrid by chemical method. Carbon, 2011, 49, 4434-4442.	10.3	125
96	Nitrogen-doped carbon nanotubes as cathode for lithiumâ€“air batteries. Electrochemistry Communications, 2011, 13, 668-672.	4.7	261
97	Nitrogen-doped carbon nanotubes with high activity for oxygen reduction in alkaline media. International Journal of Hydrogen Energy, 2011, 36, 2258-2265.	7.1	128
98	Nitrogen doping effects on the structure of graphene. Applied Surface Science, 2011, 257, 9193-9198.	6.1	476
99	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. Journal of Power Sources, 2011, 196, 1795-1801.	7.8	105
100	Direct Growth of Singleâ€Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts. Chemistry - A European Journal, 2010, 16, 829-835.	3.3	117
101	Inside Cover: Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts (Chem. Eur. J. 3/2010). Chemistry - A European Journal, 2010, 16, 732-732.	3.3	7
102	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. Journal of Physical Chemistry C, 2010, 114, 18330-18337.	3.1	75
103	Activity and Durability of Ternary PtRuIrâ•C for Methanol Electro-oxidation. Journal of the Electrochemical Society, 2009, 156, B397.	2.9	36
104	Dependence of Onset Potential for Methanol Electrocatalytic Oxidation on Steric Location of Active Center in Multicomponent Electrocatalysts. Journal of Physical Chemistry C, 2007, 111, 11897-11902.	3.1	47
105	pH induced size-selected synthesis of PtRu nanoparticles, their characterization and electrocatalytic properties. Journal of Molecular Catalysis A, 2007, 265, 42-49.	4.8	11
106	Size effect of gold nanoparticles on the electrocatalytic oxidation of carbon monoxide in alkaline solution. Journal of Nanoparticle Research, 2007, 9, 1145-1151.	1.9	29
107	Electrocatalytic oxidation of carbon monoxide on platinum-modified polyaniline film electrodes. Thin Solid Films, 2006, 497, 309-314.	1.8	26
108	A simple solution-phase reduction method for the synthesis of shape-controlled platinum nanoparticles. Materials Letters, 2005, 59, 1567-1570.	2.6	42

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109	Size-controlled synthesis of colloidal platinum nanoparticles and their activity for the electrocatalytic oxidation of carbon monoxide. Journal of Colloid and Interface Science, 2005, 287, 159-166.	9.4	47
110	Stable Water Oxidation Catalysts Based on in-situ Electrochemical Transition of Nickel Phosphate. Catalysis Letters, 0, , 1.	2.6	0