Oi Lun Li

List of Publications by Year
in descending order

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82	2,059	218381	253896
papers	citations	26	43
		h-index	g-index

83	83	83	2132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plasma-engineered organic dyes as efficient polysulfide-mediating layers for high performance lithium-sulfur batteries. Chemical Engineering Journal, 2022, 430, 132679.	6.6	5
2	Effects of Sn addition on the microstructure and magnetic properties of MnBi bulk magnets. Journal of Alloys and Compounds, 2022, 891, 161999.	2.8	4
3	Dye-synthesized N, S co-doped carbon via plasma engineering as metal-free oxygen reduction reaction electrocatalysts. Journal Physics D: Applied Physics, 2022, 55, 074001.	1.3	3
4	Reducing sugar production from spent coffee grounds using microbubble-assisted synthesis of silica acid catalyst. Catalysis Today, 2022, 388-389, 3-11.	2.2	7
5	Defect-rich CoMoS nanosheets on PANI nanowires as excellent hybrid electrocatalyst for water splitting. Electrochimica Acta, 2022, 403, 139586.	2.6	12
6	Facile in situ synthesis of dual-heteroatom-doped high-rate capability carbon anode for rechargeable seawater-batteries. Carbon, 2022, 189, 251-264.	5.4	7
7	Oxygen Vacancyâ€Enhanced Ternary Nickelâ€Tungstenâ€Cerium Metal Alloyâ€Oxides for Efficient Alkaline Electrochemical Full Cell Water Splitting Using Anion Exchange Membrane. ChemElectroChem, 2022, 9, .	1.7	6
8	Life-cycle assessment and life-cycle cost assessment of power batteries for all-electric vessels for short-sea navigation. Energy, 2022, 251, 123895.	4.5	37
9	Facile Synthesis of Necessary Amorphous Structure FePO₄ Nanospheres as Superior Sodium-Ion Battery Cathodes. ACS Applied Energy Materials, 2022, 5, 5954-5963.	2.5	14
10	Investigation of the sulfonation mechanism by gasâ€“liquid interfacial plasma under atmospheric pressure conditions. Journal Physics D: Applied Physics, 2022, 55, 345205.	1.3	1
11	Significantly enhanced photocatalytic activity by surface acid corrosion treatment and Au nanoparticles decoration on the surface of SnFe2O4 nano-octahedron. Separation and Purification Technology, 2022, 299, 121650.	3.9	7
12	Poly-active centric Co3O4-CeO2/Co-N-C composites as superior oxygen reduction catalysts for Zn-air batteries. Science China Materials, 2021, 64, 73-84.	3.5	27
13	Effect of Fe doping on the magnetic properties of MnBi alloy. Journal of Alloys and Compounds, 2021, 855, 157312.	2.8	7
14	Enhancing ORR/OER active sites through lattice distortion of Fe-enriched FeNi3 intermetallic nanoparticles doped N-doped carbon for high-performance rechargeable Zn-air battery. Journal of Colloid and Interface Science, 2021, 582, 977-990.	5.0	99
15	Effect of phase purity on enhancing the magnetic properties of Mn-Bi alloy. Journal of Magnetism and Magnetic Materials, 2021, 517, 167344.	1.0	7
16	Maximizing the rate capability of carbon-based anode materials for sodium-ion batteries. Journal of Power Sources, 2021, 481, 228973.	4.0	16
17	FeF₃Â·0.33H₂O@carbon nanosheets with honeycomb architectures for high-capacity lithium-ion cathode storage by enhanced pseudocapacitance. Journal of Materials Chemistry A, 2021, 9, 16370-16383.	5.2	37
18	Ultrasonic Plasma Engineering Toward Facile Synthesis of Single-Atom M-N4/N-Doped Carbon (Mâ€‰=â€‰Fe,) Tj ETQq0 0 0 rgBT /Ove 13, 60.	14.4	63

#	Article	IF	Citations
19	N2/Ar plasma-induced surface sulfonation on graphene nanoplatelets for catalytic hydrolysis of cellulose to glucose. Applied Surface Science, 2021, 545, 149051.	3.1	10
20	Molecular M-N4 macrocycles in a nitrogen-carbon matrix as a highly durable oxygen reduction reaction (ORR) electrocatalysts in acid media. Materials Letters, 2021, 291, 129561.	1.3	10
21	Mn-Co bimetallic phosphate on electrodeposited PANI nanowires with composition modulated structural morphology for efficient electrocatalytic water splitting. Applied Catalysis B: Environmental, 2021, 292, 120202.	10.8	73
22	Feasibility test of a concurrent process for CO2 reduction and plastic upcycling based on CO2 plasma jet. Journal of CO2 Utilization, 2021, 52, 101701.	3.3	4
23	Core-double shells heterostructure Î³-Fe2O3@FeS2@C nanocubics with energy level matching double interfaces to boost the oxygen evolution reaction. Journal of Alloys and Compounds, 2021, 885, 160986.	2.8	13
24	Electrodeposited Trimetallic NiFeW Hydroxide Electrocatalysts for Efficient Water Oxidation. ChemSusChem, 2021, 14, 1324-1335.	3.6	31
25	Hybrid Catalytic-Protective Structure of CuInS₂ and B-N Doped Carbon as a Highly Efficient and Ultra-Stable Electrocatalyst for Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2021, 125, 546-557.	1.5	10
26	Facile one-pot synthesis of low cost MnO2 nanosheet/Super P Li composites with high oxygen reduction reaction activity for Zn-air batteries. Journal of Power Sources, 2020, 448, 227385.	4.0	37
27	Rechargeable Zn-ion batteries with high power and energy densities: a two-electron reaction pathway in birnessite MnO₂ cathode materials. Journal of Materials Chemistry A, 2020, 8, 1975-1985.	5.2	99
28	Preparation of an amphiphobic and electrically conductive coating with mushroom structure on flexible polymer substrate. Vacuum, 2020, 180, 109579.	1.6	5
29	Novel synthesis of highly phosphorus-doped carbon as an ultrahigh-rate anode for sodium ion batteries. Carbon, 2020, 168, 448-457.	5.4	52
30	Hybrid Molybdenum Carbide/Heteroatom-Doped Carbon Electrocatalyst for Advanced Oxygen Evolution Reaction in Hydrogen Production. Catalysts, 2020, 10, 1290.	1.6	10
31	Insights on boosting oxygen evolution reaction performance via boron incorporation into nitrogen-doped carbon electrocatalysts. Applied Surface Science, 2020, 528, 146979.	3.1	18
32	Cobalt Nanoparticles on Plasma-Controlled Nitrogen-Doped Carbon as High-Performance ORR Electrocatalyst for Primary Zn-Air Battery. Nanomaterials, 2020, 10, 223.	1.9	16
33	Green Sulfonation of Carbon Catalysts via Gasâ€“Liquid Interfacial Plasma for Cellulose Hydrolysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 5837-5846.	3.2	23
34	Mn³⁺ Active Surface Site Enriched Manganese Phosphate Nanoâ€polyhedrons for Enhanced Bifunctional Oxygen Electrocatalyst. ChemCatChem, 2020, 12, 2348-2355.	1.8	53
35	Self-assembled 3D hierarchical MnCO3/NiFe layered double hydroxides as a superior electrocatalysts for the oxygen evolution reactions. Journal of Colloid and Interface Science, 2020, 566, 224-233.	5.0	32
36	Plasma-Engineered Silica Acid Catalysts for Coffee Waste Conversion to Xylose. Ceramist, 2020, 23, 430-438.	0.0	0

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37	Development of a robust, self-cleaning, amphiphobic, and electrically conductive coating on a flexible polymer substrate. Materials and Design, 2019, 182, 108023.	3.3	18
38	Enhanced Electrocatalytic Stability of Platinum Nanoparticles Supported on Sulfur-Doped Carbon using in-situ Solution Plasma. Scientific Reports, 2019, 9, 12704.	1.6	29
39	Mechanochemical assisted synthesis of heteroatoms inherited highly porous carbon from biomass for electrochemical capacitor and oxygen reduction reaction electrocatalysis. Electrochimica Acta, 2019, 317, 1-9.	2.6	46
40	Transition Metal (Fe, Co, Ni) Nanoparticles on Selective Amino-N-Doped Carbon as High-Performance Oxygen Reduction Reaction Electrocatalyst. Nanomaterials, 2019, 9, 742.	1.9	29
41	Effect of hydrophilic/hydrophobic properties of carbon materials on plasma-sulfonation process and their catalytic activities in cellulose conversion. Catalysis Today, 2019, 337, 155-161.	2.2	16
42	Exploration of Lewis basicity and oxygen reduction reaction activity in plasma-tailored nitrogen-doped carbon electrocatalysts. Catalysis Today, 2019, 337, 102-109.	2.2	39
43	Amphiphobic Surface of NiAl Layered Double Hydroxide Nanostructure on the Micro-Patterned Polycarbonate Substrate. Science of Advanced Materials, 2019, 11, 1574-1580.	0.1	1
44	Oxygen Reduction Reaction Activity of Thermally Tailored Nitrogenâ€Doped Carbon Electrocatalysts Prepared through Plasma Synthesis. ChemElectroChem, 2018, 5, 1995-2001.	1.7	11
45	Substrate-independent stressâ€“strain behavior of diamond-like carbon thin films by nanoindentation with a spherical tip. Journal of Materials Research, 2018, 33, 699-708.	1.2	5
46	Accelerated formation of nanocarbons in solution plasma using benzene substituted with CF₃ group. Japanese Journal of Applied Physics, 2018, 57, 0102B6.	0.8	0
47	Comparative study of nanocarbons synthesized between electrodes in liquid phase by solution plasma. Japanese Journal of Applied Physics, 2018, 57, 0102BD.	0.8	3
48	Recent progress in solution plasma-synthesized-carbon-supported catalysts for energy conversion systems. Japanese Journal of Applied Physics, 2018, 57, 0102A2.	0.8	10
49	Development, Challenges, and Prospects of Carbon-Based Electrode for Lithium-Air Batteries. , 2018, , 115-152.		12
50	Robust, self-cleaning, amphiphobic coating with flower-like nanostructure on micro-patterned polymer substrate. Chemical Engineering Journal, 2018, 352, 173-181.	6.6	56
51	Effects of Ga-doping on the microstructure and magnetic properties of MnBi alloys. Journal of Alloys and Compounds, 2018, 769, 813-816.	2.8	23
52	Impact of pillar configuration on the amphiphobicity of micro-patterned polymer surface. Vacuum, 2018, 156, 115-122.	1.6	13
53	Corrosion resistance of composite oxide film prepared on Ca-added flame-resistant magnesium alloy AZCa612 by micro-arc oxidation. Corrosion Science, 2017, 125, 99-105.	3.0	18
54	Synthesis of graphitic-N and amino-N in nitrogen-doped carbon via a solution plasma process and exploration of their synergic effect for advanced oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 2073-2082.	5.2	94

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55	Hydrolysis of cellulose to glucose over carbon catalysts sulfonated via a plasma process in dilute acids. Green Chemistry, 2017, 19, 4774-4777.	4.6	41
56	Adsorption of carbon dioxide by solution-plasma-synthesized heteroatom-doped carbon nanospheres. Japanese Journal of Applied Physics, 2016, 55, 01AE10.	0.8	9
57	Enhancement of conductivity in nano carbon balls by the addition of carbon tetrachloride via room temperature solution plasma process. RSC Advances, 2016, 6, 51864-51870.	1.7	15
58	Effects of halogen doping on nanocarbon catalysts synthesized by a solution plasma process for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2016, 18, 21843-21851.	1.3	38
59	Selective nitrogen bonding states in nitrogen-doped carbon via a solution plasma process for advanced oxygen reduction reaction. RSC Advances, 2016, 6, 109354-109360.	1.7	23
60	Heterocarbon nanosheets incorporating iron phthalocyanine for oxygen reduction reaction in both alkaline and acidic media. Physical Chemistry Chemical Physics, 2016, 18, 10856-10863.	1.3	30
61	Synthesis of heteroatom-carbon nanosheets by solution plasma processing using N-methyl-2-pyrrolidone as precursor. RSC Advances, 2016, 6, 6990-6996.	1.7	27
62	High Efficiency DNA Extraction by Graphite Oxide/Cellulose/Magnetite Composites Under Na+ Free System. Jom, 2016, 68, 1071-1077.	0.9	1
63	Highly durable silica-coated Pt/carbon nanotubes for proton-exchange membrane fuel cells application. Japanese Journal of Applied Physics, 2016, 55, 01AE23.	0.8	3
64	Innovative Graphite Oxide-Cellulose Based Material Specific for Genomic DNA Extraction. Jom, 2015, 67, 2557-2563.	0.9	1
65	Highly durable silica coated Pt/Cs with different surfactant types for proton exchange membrane fuel cell applications. RSC Advances, 2015, 5, 44258-44262.	1.7	4
66	Thermal plasma treatment of stormwater sediments: comparison between DC non-transferred and partially transferred arc plasma. Environmental Technology (United Kingdom), 2015, 36, 1672-1679.	1.2	7
67	Enhancement of ORR catalytic activity by multiple heteroatom-doped carbon materials. Physical Chemistry Chemical Physics, 2015, 17, 407-413.	1.3	141
68	Adsorption and desorption of DNA tuned by hydroxyl groups in graphite oxides-based solid extraction material. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1-6.	2.5	2
69	A new approach of nonpoint source pollution/stormwater sludge treatment by an integrated thermal plasma system. International Journal of Environmental Science and Technology, 2015, 12, 1769-1778.	1.8	6
70	The role of the central Fe atom in the N4-macrocyclic structure for the enhancement of oxygen reduction reaction in a heteroatom nitrogenâ€“carbon nanosphere. Physical Chemistry Chemical Physics, 2014, 16, 14905.	1.3	54
71	Hierarchical mesoâ€“macro structure porous carbon black as electrode materials in Liâ€“air battery. Journal of Power Sources, 2014, 261, 156-161.	4.0	79
72	Solution plasma synthesis process of tungsten carbide on N-doped carbon nanocomposite with enhanced catalytic ORR activity and durability. RSC Advances, 2014, 4, 16813.	1.7	49

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73	Synthesis of structure-controlled carbon nano spheres by solution plasma process. Carbon, 2013, 60, 292-298.	5.4	128
74	A simple synthesis method for nano-metal catalyst supported on mesoporous carbon: the solution plasma process. Nanoscale, 2013, 5, 6874.	2.8	74
75	Toxic Element Analyses of Summer and Winter Storm-Water Sediment by Neutron Activation Analyses. Journal of Environmental Engineering, ASCE, 2012, 138, 588-593.	0.7	5
76	Active Species Generated by a Pulsed Arc Electrohydraulic Discharge Plasma Channel in Contaminated Water Treatments. Plasma Chemistry and Plasma Processing, 2012, 32, 343-358.	1.1	23
77	Pulsed arc electrohydraulic discharge characteristics, plasma parameters, and optical emission during contaminated pond water treatments. IEEE Electrical Insulation Magazine, 2011, 27, 8-17.	1.1	12
78	Pulsed Arc Electrohydraulic Discharge characteristics and plasma parameters of sludge-water. , 2009, , .		2
79	Thermal plasma treatment of stormwater detention pond sludge. Pure and Applied Chemistry, 2008, 80, 1993-2002.	0.9	6
80	Facile in Situ Synthesis of Dual-Heteroatom-Doped High-Rate Capability Carbon Anode for Rechargeable Seawater-Batteriesâ€‹. SSRN Electronic Journal, 0, , .	0.4	0
81	Oxygen Vacancyâ€Enhanced Ternary Nickelâ€Tungstenâ€Cerium Metal Alloyâ€Oxides for Efficient Alkaline Electrochemical Full Cell Water Splitting Using Anion Exchange Membrane. ChemElectroChem, 0, , .	1.7	0
82	Oxygen Vacancyâ€Enhanced Ternary Nickelâ€Tungstenâ€Cerium Metal Alloyâ€Oxides for Efficient Alkaline Electrochemical Full Cell Water Splitting Using Anion Exchange Membrane. ChemElectroChem, 0, , .	1.7	0