

# Lei Ge

## List of Publications by Year in descending order

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207  
papers

16,186  
citations

11608

70  
h-index

18075

120  
g-index

211  
all docs

211  
docs citations

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times ranked

17122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017, 29, 1606793.	11.1	1,144
2	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3110-3116.	7.2	863
3	Synthesis, characterization and evaluation of cation-ordered LnBaCo <sub>2</sub> O <sub>5+</sub> as materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , 2008, 56, 4876-4889.	3.8	461
4	Paper-based chemiluminescence ELISA: Lab-on-paper based on chitosan modified paper device and wax-screen-printing. <i>Biosensors and Bioelectronics</i> , 2012, 31, 212-218.	5.3	396
5	Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. <i>Journal of Materials Chemistry A</i> , 2018, 6, 293-312.	5.2	377
6	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020, 11, 2002.	5.8	366
7	Three-dimensional paper-based electrochemiluminescence immunodevice for multiplexed measurement of biomarkers and point-of-care testing. <i>Biomaterials</i> , 2012, 33, 1024-1031.	5.7	344
8	Advances and challenges in electrochemical CO <sub>2</sub> reduction processes: an engineering and design perspective looking beyond new catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1511-1544.	5.2	305
9	Microfluidic paper-based chemiluminescence biosensor for simultaneous determination of glucose and uric acid. <i>Lab on A Chip</i> , 2011, 11, 1286.	3.1	296
10	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013, 49, 9914.	2.2	294
11	3D Origami-based multifunction-integrated immunodevice: low-cost and multiplexed sandwich chemiluminescence immunoassay on microfluidic paper-based analytical device. <i>Lab on A Chip</i> , 2012, 12, 3150.	3.1	257
12	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. <i>Energy and Environmental Science</i> , 2021, 14, 1959-2008.	15.6	243
13	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13565-13572.	7.2	205
14	Electrochemical immunoassay on a 3D microfluidic paper-based device. <i>Chemical Communications</i> , 2012, 48, 4683.	2.2	199
15	A novel chemiluminescence paper microfluidic biosensor based on enzymatic reaction for uric acid determination. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3284-3289.	5.3	178
16	Three-dimensional paper-based electrochemiluminescence device for simultaneous detection of Pb <sup>2+</sup> and Hg <sup>2+</sup> based on potential-control technique. <i>Biosensors and Bioelectronics</i> , 2013, 41, 544-550.	5.3	177
17	Layered Double Hydroxide Functionalized Textile for Effective Oil/Water Separation and Selective Oil Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 791-800.	4.0	176
18	Selectivity Control for Electrochemical CO <sub>2</sub> Reduction by Charge Redistribution on the Surface of Copper Alloys. <i>ACS Catalysis</i> , 2019, 9, 9411-9417.	5.5	172

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19	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , 2018, 11, 3509-3518.	5.8	167
20	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. <i>Chemical Communications</i> , 2014, 50, 1417-1419.	2.2	166
21	Mixed Matrix Membranes with Strengthened MOFs/Polymer Interfacial Interaction and Improved Membrane Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5609-5618.	4.0	163
22	Electrochemical DNA sensor based on three-dimensional folding paper device for specific and sensitive point-of-care testing. <i>Electrochimica Acta</i> , 2012, 80, 334-341.	2.6	161
23	Paper-based three-dimensional electrochemical immunodevice based on multi-walled carbon nanotubes functionalized paper for sensitive point-of-care testing. <i>Biosensors and Bioelectronics</i> , 2012, 32, 238-243.	5.3	159
24	Truly Immobilization-Free Diffusivity-Mediated Photoelectrochemical Biosensing Strategy for Facile and Highly Sensitive MicroRNA Assay. <i>Analytical Chemistry</i> , 2018, 90, 9591-9597.	3.2	159
25	Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32041-32049.	4.0	157
26	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019, 31, 5238-5244.	3.2	153
27	Photoelectrochemical Lab-on-Paper Device Based on an Integrated Paper Supercapacitor and Internal Light Source. <i>Analytical Chemistry</i> , 2013, 85, 3961-3970.	3.2	142
28	Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 505, 61-69.	4.1	141
29	Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6350.	5.2	140
30	High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. <i>Carbon</i> , 2015, 82, 417-424.	5.4	140
31	Electrochemiluminescence of blue-luminescent graphene quantum dots and its application in ultrasensitive aptasensor for adenosine triphosphate detection. <i>Biosensors and Bioelectronics</i> , 2013, 47, 271-277.	5.3	137
32	Direct Laser Writing of Metal Sulfide-Graphene Nanocomposite Photoelectrode toward Sensitive Photoelectrochemical Sensing. <i>Advanced Functional Materials</i> , 2019, 29, 1904000.	7.8	135
33	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 9619.	6.7	133
34	Paper-Based Electrochemiluminescent 3D Immunodevice for Lab-on-Paper, Specific, and Sensitive Point-of-Care Testing. <i>Chemistry - A European Journal</i> , 2012, 18, 4938-4945.	1.7	132
35	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021, 17, e2101573.	5.2	128
36	Mixed-Matrix Membranes with Metal-Organic Framework-Decorated CNT Fillers for Efficient CO <sub>2</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14750-14757.	4.0	124

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37	Molecularly Imprinted Polymer Grafted Porous Au@Paper Electrode for an Microfluidic Electro-Analytical Origami Device. <i>Advanced Functional Materials</i> , 2013, 23, 3115-3123.	7.8	115
38	Systematic investigation on new SrCo <sub>1-y</sub> NbyO <sub>3-δ</sub> ceramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , 2008, 323, 436-443.	4.1	114
39	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. <i>Lab on A Chip</i> , 2012, 12, 4489.	3.1	114
40	Novel B-site ordered double perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6-x</sub> for highly efficient oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2011, 4, 872-875.	15.6	112
41	Properties and performance of A-site deficient (Ba <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>1-x</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> for oxygen permeating membrane. <i>Journal of Membrane Science</i> , 2007, 306, 318-328.	4.1	111
42	Enhanced gas permeability by fabricating functionalized multi-walled carbon nanotubes and polyethersulfone nanocomposite membrane. <i>Separation and Purification Technology</i> , 2011, 78, 76-82.	3.9	109
43	In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced CO <sub>2</sub> adsorption. <i>Dalton Transactions</i> , 2014, 43, 7028.	1.6	108
44	Anti-fouling membranes by manipulating surface wettability and their anti-fouling mechanism. <i>Desalination</i> , 2017, 413, 127-135.	4.0	108
45	Photoelectrochemical sensor for pentachlorophenol on microfluidic paper-based analytical device based on the molecular imprinting technique. <i>Biosensors and Bioelectronics</i> , 2014, 56, 97-103.	5.3	107
46	A versatile immobilization-free photoelectrochemical biosensor for ultrasensitive detection of cancer biomarker based on enzyme-free cascaded quadratic amplification strategy. <i>Biosensors and Bioelectronics</i> , 2016, 77, 220-226.	5.3	105
47	A Universal Paper-Based Electrochemical Sensor for Zero-Background Assay of Diverse Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15381-15388.	4.0	103
48	A disposable electrochemical immunosensor based on carbon screen-printed electrodes for the detection of prostate specific antigen. <i>Biosensors and Bioelectronics</i> , 2012, 38, 355-361.	5.3	100
49	A disposable paper-based electrochemical sensor with an addressable electrode array for cancer screening. <i>Chemical Communications</i> , 2012, 48, 9397.	2.2	99
50	Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13264-13270.	1.5	96
51	Affinity-Mediated Homogeneous Electrochemical Aptasensor on a Graphene Platform for Ultrasensitive Biomolecule Detection via Exonuclease-Assisted Target-Analog Recycling Amplification. <i>Analytical Chemistry</i> , 2016, 88, 2212-2219.	3.2	93
52	A disposable electrochemiluminescence device for ultrasensitive monitoring of K562 leukemia cells based on aptamers and ZnO@carbon quantum dots. <i>Biosensors and Bioelectronics</i> , 2013, 49, 79-85.	5.3	92
53	Molecularly imprinted polymer grafted paper-based multi-disk micro-disk plate for chemiluminescence detection of pesticide. <i>Biosensors and Bioelectronics</i> , 2013, 50, 262-268.	5.3	91
54	Halloysite-Nanotube-Supported Ru Nanoparticles for Ammonia Catalytic Decomposition to Produce CO <sub>x</sub> -Free Hydrogen. <i>Energy &amp; Fuels</i> , 2011, 25, 3408-3416.	2.5	88

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55	Paper-based electrochemical cyto-device for sensitive detection of cancer cells and in situ anticancer drug screening. <i>Analytica Chimica Acta</i> , 2014, 847, 1-9.	2.6	87
56	Electrochemical CO <sub>2</sub> reduction in membrane-electrode assemblies. <i>CheM</i> , 2022, 8, 663-692.	5.8	86
57	A novel microfluidic origami photoelectrochemical sensor based on CdTe quantum dots modified molecularly imprinted polymer and its highly selective detection of S-fenvalerate. <i>Electrochimica Acta</i> , 2013, 107, 147-154.	2.6	85
58	Visible light photoelectrochemical sensor based on Au nanoparticles and molecularly imprinted poly(o-phenylenediamine)-modified TiO <sub>2</sub> nanotubes for specific and sensitive detection chlorpyrifos. <i>Analyst, The</i> , 2013, 138, 939-945.	1.7	84
59	Investigation of Gas Permeability in Carbon Nanotube (CNT)-Polymer Matrix Membranes via Modifying CNTs with Functional Groups/Metals and Controlling Modification Location. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6661-6670.	1.5	83
60	A paper-based photoelectrochemical immunoassay for low-cost and multiplexed point-of-care testing. <i>Chemical Communications</i> , 2013, 49, 3294.	2.2	83
61	Paper-based electrochemiluminescence origami cyto-device for multiple cancer cells detection using porous AuPd alloy as catalytically promoted nanolabels. <i>Biosensors and Bioelectronics</i> , 2015, 63, 450-457.	5.3	81
62	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. <i>Chemistry of Materials</i> , 2011, 23, 4193-4198.	3.2	80
63	Simple and covalent fabrication of a paper device and its application in sensitive chemiluminescence immunoassay. <i>Analyst, The</i> , 2012, 137, 3821.	1.7	80
64	A microfluidic origami electrochemiluminescence aptamer-device based on a porous Au-paper electrode and a phenyleneethynylene derivative. <i>Chemical Communications</i> , 2013, 49, 1383-1385.	2.2	80
65	Versatile and Programmable DNA Logic Gates on Universal and Label-Free Homogeneous Electrochemical Platform. <i>Analytical Chemistry</i> , 2016, 88, 9691-9698.	3.2	77
66	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO <sub>2</sub> reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	10.8	77
67	Photoelectrochemical lab-on-paper device equipped with a porous Au-paper electrode and fluidic delay-switch for sensitive detection of DNA hybridization. <i>Lab on A Chip</i> , 2013, 13, 3945.	3.1	76
68	A three-dimensional origami-based immuno-biofuel cell for self-powered, low-cost, and sensitive point-of-care testing. <i>Chemical Communications</i> , 2014, 50, 1947.	2.2	76
69	New Undisputed Evidence and Strategy for Enhanced Lattice-Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. <i>Advanced Science</i> , 2022, 9, e2200530.	5.6	75
70	Rational Design of a Water-Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. <i>Advanced Science</i> , 2017, 4, 1700337.	5.6	74
71	Lab-on-paper-based devices using chemiluminescence and electrogenerated chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5613-5630.	1.9	73
72	Synthesis and characterization of three amino-functionalized metal-organic frameworks based on the 2-aminoterephthalic ligand. <i>Dalton Transactions</i> , 2015, 44, 8190-8197.	1.6	72

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73	Catalytic partial oxidation of methane to syngas: review of perovskite catalysts and membrane reactors. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 1-67.	5.7	71
74	Evaluation and optimization of $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ perovskites as cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3179-3186.	3.8	70
75	Multiplex electrochemical origami immunodevice based on cuboid silver-paper electrode and metal ions tagged nanoporous silver-chitosan. <i>Biosensors and Bioelectronics</i> , 2014, 56, 167-173.	5.3	69
76	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient $\text{CO}_2$ Reduction to Formate by Controlled Surface Sn Electrodeposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21670-21681.	4.0	69
77	Ratiometric NanoCluster Beacon: A Label-Free and Sensitive Fluorescent DNA Detection Platform. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13102-13110.	4.0	68
78	Electrophoretic separation in a microfluidic paper-based analytical device with an on-column wireless electrogenerated chemiluminescence detector. <i>Chemical Communications</i> , 2014, 50, 5699.	2.2	65
79	Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6084-6090.	5.2	65
80	Synthesis and characterization of graphene nanosheets attached to spiky $\text{MnO}_2$ nanospheres and its application in ultrasensitive immunoassay. <i>Carbon</i> , 2013, 57, 22-33.	5.4	64
81	3D microfluidic origami electrochemiluminescence immunodevice for sensitive point-of-care testing of carcinoma antigen 125. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1-8.	4.0	62
82	In situ assembly of porous Au-paper electrode and functionalization of magnetic silica nanoparticles with HRP via click chemistry for Microcystin-LR immunoassay. <i>Biosensors and Bioelectronics</i> , 2013, 49, 111-117.	5.3	61
83	Electro-Grafted Electrode with Graphene-Oxide-Like DNA Affinity for Ratiometric Homogeneous Electrochemical Biosensing of MicroRNA. <i>Analytical Chemistry</i> , 2017, 89, 11560-11567.	3.2	60
84	Toward Excellence of Transition Metal-Based Catalysts for $\text{CO}_2$ Electrochemical Reduction: An Overview of Strategies and Rationales. <i>Small Methods</i> , 2020, 4, 2000033.	4.6	60
85	Composite cathodes for protonic ceramic fuel cells: Rationales and materials. <i>Composites Part B: Engineering</i> , 2022, 238, 109881.	5.9	59
86	Development of a novel deltamethrin sensor based on molecularly imprinted silica nanospheres embedded CdTe quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1704-1709.	2.0	58
87	Cyto-sensing in electrochemical lab-on-paper cyto-device for in-situ evaluation of multi-glycan expressions on cancer cells. <i>Biosensors and Bioelectronics</i> , 2015, 63, 232-239.	5.3	58
88	A disposable immunosensor device for point-of-care test of tumor marker based on copper-mediated amplification. <i>Biosensors and Bioelectronics</i> , 2013, 43, 425-431.	5.3	56
89	Highly active nickel-cobalt/nanocarbon thin films as efficient water splitting electrodes. <i>Nanoscale</i> , 2016, 8, 18507-18515.	2.8	56
90	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44300-44307.	4.0	53

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91	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. <i>Journal of Power Sources</i> , 2020, 468, 228377.	4.0	52
92	Hierarchically structured metal-organic framework/vertically-aligned carbon nanotubes hybrids for CO <sub>2</sub> capture. <i>RSC Advances</i> , 2013, 3, 25360.	1.7	51
93	Graphene-Assisted Label-Free Homogeneous Electrochemical Biosensing Strategy based on Aptamer-Switched Bidirectional DNA Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28566-28575.	4.0	50
94	Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. <i>Separation and Purification Technology</i> , 2017, 173, 63-71.	3.9	50
95	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6</sub> Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011, 23, 1618-1624.	3.2	49
96	A disposable simultaneous electrochemical sensor array based on a molecularly imprinted film at a NH <sub>2</sub> -graphene modified screen-printed electrode for determination of psychotropic drugs. <i>Analyst</i> , 2013, 138, 2704.	1.7	49
97	Ratiometric Catalyzed-Assembly of NanoCluster Beacons: A Nonenzymatic Approach for Amplified DNA Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32089-32096.	4.0	49
98	An origami electrochemiluminescence immunosensor based on gold/graphene for specific, sensitive point-of-care testing of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 247-254.	4.0	48
99	Pore channel surface modification for enhancing anti-fouling membrane distillation. <i>Applied Surface Science</i> , 2018, 443, 217-226.	3.1	48
100	Oxygen selective membranes based on B-site cation-deficient (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> ) <sub>y</sub> O <sub>3-<math>\delta</math></sub> perovskite with improved operational stability. <i>Journal of Membrane Science</i> , 2008, 318, 182-190.	4.1	47
101	Halloysite Nanotube Supported Ru Nanocatalysts Synthesized by the Inclusion of Preformed Ru Nanoparticles for Preferential Oxidation of CO in H <sub>2</sub> -Rich Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4141-4151.	1.5	46
102	From scheelite BaMoO <sub>4</sub> to perovskite BaMoO <sub>3</sub> : Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. <i>Composites Part B: Engineering</i> , 2020, 198, 108214.	5.9	46
103	Highly sensitive electrogenerated chemiluminescence biosensor based on hybridization chain reaction and amplification of gold nanoparticles for DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 942-948.	4.0	45
104	The preparation of activated carbon discs from tar pitch and coal powder for adsorption of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , 2017, 238, 19-26.	2.2	45
105	Calcium Looping for CO <sub>2</sub> Capture at a Constant High Temperature. <i>Energy &amp; Fuels</i> , 2014, 28, 307-318.	2.5	43
106	Interfacial engineering of a polymer-MOF composite by <i>in situ</i> vitrification. <i>Chemical Communications</i> , 2020, 56, 3609-3612.	2.2	43
107	Self-Powered and Sensitive DNA Detection in a Three-Dimensional Origami-Based Biofuel Cell Based on a Porous Pt Paper Cathode. <i>Chemistry - A European Journal</i> , 2014, 20, 12453-12462.	1.7	42
108	A novel enzyme biosensor for glucose based on rhodanine derivative chemiluminescence system and mesoporous hollow silica microspheres receptor. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2065-2070.	5.3	39

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109	Enabling Process Intensification by 3D Printing of Catalytic Structures. <i>ChemCatChem</i> , 2017, 9, 4132-4138.	1.8	39
110	Facile autocombustion synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> (LSCF) perovskite via a modified complexing sol-gel process with NH <sub>4</sub> NO <sub>3</sub> as combustion aid. <i>Journal of Alloys and Compounds</i> , 2008, 450, 338-347.	2.8	38
111	A comparison study of catalytic oxidation and acid oxidation to prepare carbon nanotubes for filling with Ru nanoparticles. <i>Carbon</i> , 2011, 49, 2022-2032.	5.4	38
112	Label-free and immobilization-free photoelectrochemical biosensing strategy using methylene blue in homogeneous solution as signal probe for facile DNA methyltransferase activity assay. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111395.	5.3	38
113	A laser-induced TiO <sub>2</sub> -decorated graphene photoelectrode for sensitive photoelectrochemical biosensing. <i>Chemical Communications</i> , 2019, 55, 4945-4948.	2.2	38
114	Fabrication of PVDF hollow fiber membranes via integrated phase separation for membrane distillation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 487-494.	2.7	38
115	A 3D origami multiple electrochemiluminescence immunodevice based on a porous silver-paper electrode and multi-labeled nanoporous gold-carbon spheres. <i>Chemical Communications</i> , 2013, 49, 7687.	2.2	37
116	Rechargeable battery-triggered electrochemiluminescence detection on microfluidic origami immunodevice based on two electrodes. <i>Chemical Communications</i> , 2012, 48, 9971.	2.2	36
117	Disposable electrochemical immunosensor for simultaneous assay of a panel of breast cancer tumor markers. <i>Analyst</i> , 2012, 137, 4727.	1.7	36
118	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019, 357, 320-327.	6.6	36
119	Modulated Sn Oxidation States over a Cu <sub>2</sub> O-Derived Substrate for Selective Electrochemical CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22760-22770.	4.0	36
120	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO <sub>2</sub> adsorption. <i>Composites Communications</i> , 2017, 5, 27-30.	3.3	35
121	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO <sub>2</sub> electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	10.8	35
122	Vertically-aligned carbon nanotube membranes for hydrogen separation. <i>RSC Advances</i> , 2012, 2, 5329.	1.7	33
123	Electrochemical Reduction of CO <sub>2</sub> to Ethane through Stabilization of an Ethoxy Intermediate. <i>Angewandte Chemie</i> , 2020, 132, 19817-19821.	1.6	33
124	Photoelectrochemical lab-on-paper device based on molecularly imprinted polymer and porous Au-paper electrode. <i>Analyst</i> , 2013, 138, 4802.	1.7	32
125	A facile homogeneous electrochemical biosensing strategy based on displacement reaction for intracellular and extracellular hydrogen peroxide detection. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111446.	5.3	32
126	Improved enzymatic activity by oriented immobilization on graphene oxide with tunable surface heterogeneity. <i>Composites Part B: Engineering</i> , 2021, 216, 108788.	5.9	32



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127	Application of Au cage/Ru(bpy) <sub>3</sub> <sup>2+</sup> nanostructures for the electrochemiluminescence detection of K562 cancer cells based on aptamer. <i>Sensors and Actuators B: Chemical</i> , 2015, 214, 144-151.	4.0	31
128	Anisotropic coal permeability estimation by determining cleat compressibility using mercury intrusion porosimetry and stress-strain measurements. <i>International Journal of Coal Geology</i> , 2019, 205, 75-86.	1.9	31
129	Electrogenerated Chemiluminescence from a Phenyleneethynylene Derivative and its Ultrasensitive Immunosensing Application Using a Nanotubular Mesoporous Pt-Ag Alloy for Signal Amplification. <i>Advanced Functional Materials</i> , 2012, 22, 3899-3906.	7.8	30
130	TiO <sub>2</sub> -graphene complex nanopaper for paper-based label-free photoelectrochemical immunoassay. <i>Electrochimica Acta</i> , 2013, 112, 620-628.	2.6	29
131	Direct-laser-writing of three-dimensional porous graphene frameworks on indium-tin oxide for sensitive electrochemical biosensing. <i>Analyst</i> , 2018, 143, 3327-3334.	1.7	29
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