

Lei Ge

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203
papers

12,355
citations

64
h-index

105
g-index

211
ext. papers

14,184
ext. citations

8.2
avg, IF

6.77
L-index

#	Paper	IF	Citations
203	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1606793	24	821
202	Two-step boron and nitrogen doping in graphene for enhanced synergistic catalysis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3110-6	16.4	776
201	Synthesis, characterization and evaluation of cation-ordered LnBaCo ₂ O _{5+δ} materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , 2008 , 56, 4876-4889	8.4	391
200	Paper-based chemiluminescence ELISA: lab-on-paper based on chitosan modified paper device and wax-screen-printing. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 212-8	11.8	358
199	Three-dimensional paper-based electrochemiluminescence immunodevice for multiplexed measurement of biomarkers and point-of-care testing. <i>Biomaterials</i> , 2012 , 33, 1024-31	15.6	318
198	Microfluidic paper-based chemiluminescence biosensor for simultaneous determination of glucose and uric acid. <i>Lab on A Chip</i> , 2011 , 11, 1286-91	7.2	261
197	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013 , 49, 9914-6	5.8	248
196	Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 293-312	13	235
195	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, 3150-8	7.2	232
194	Electrochemical immunoassay on a 3D microfluidic paper-based device. <i>Chemical Communications</i> , 2012 , 48, 4683-5	5.8	178
193	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020 , 11, 2002	17.4	166
192	A novel chemiluminescence paper microfluidic biosensor based on enzymatic reaction for uric acid determination. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3284-9	11.8	165
191	Three-dimensional paper-based electrochemiluminescence device for simultaneous detection of Pb ²⁺ and Hg ²⁺ based on potential-control technique. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 544-50	11.8	163
190	Layered double hydroxide functionalized textile for effective oil/water separation and selective oil adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 791-800	9.5	153
189	Flexible paper-based ZnO nanorod light-emitting diodes induced multiplexed photoelectrochemical immunoassay. <i>Chemical Communications</i> , 2014 , 50, 1417-9	5.8	148
188	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, 238-43	11.8	148
187	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	6.7	147

186	Advances and challenges in electrochemical CO ₂ reduction processes: an engineering and design perspective looking beyond new catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1511-1544	13	141
185	Mixed matrix membranes with strengthened MOFs/polymer interfacial interaction and improved membrane performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5609-18	9.5	132
184	Photoelectrochemical lab-on-paper device based on an integrated paper supercapacitor and internal light source. <i>Analytical Chemistry</i> , 2013 , 85, 3961-70	7.8	130
183	Truly Immobilization-Free Diffusivity-Mediated Photoelectrochemical Biosensing Strategy for Facile and Highly Sensitive MicroRNA Assay. <i>Analytical Chemistry</i> , 2018 , 90, 9591-9597	7.8	129
182	Electrochemiluminescence of blue-luminescent graphene quantum dots and its application in ultrasensitive aptasensor for adenosine triphosphate detection. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 271-7	11.8	124
181	Paper-based electrochemiluminescent 3D immunodevice for lab-on-paper, specific, and sensitive point-of-care testing. <i>Chemistry - A European Journal</i> , 2012 , 18, 4938-45	4.8	123
180	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9619		123
179	Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6350	13	122
178	High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. <i>Carbon</i> , 2015 , 82, 417-424	10.4	121
177	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	16.4	121
176	Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 505, 61-69	9.6	115
175	Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32041-32049	9.5	112
174	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	10	110
173	Novel B-site ordered double perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O ₆ for highly efficient oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2011 , 4, 872-875	35.4	108
172	Selectivity Control for Electrochemical CO ₂ Reduction by Charge Redistribution on the Surface of Copper Alloys. <i>ACS Catalysis</i> , 2019 , 9, 9411-9417	13.1	106
171	Battery-triggered microfluidic paper-based multiplex electrochemiluminescence immunodevice based on potential-resolution strategy. <i>Lab on A Chip</i> , 2012 , 12, 4489-98	7.2	103
170	Systematic investigation on new SrCo _{1-x} NbyO _{3-δ} ceramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , 2008 , 323, 436-443	9.6	103
169	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019 , 31, 5238-5244	9.6	102

168	Molecularly Imprinted Polymer Grafted Porous Au-Paper Electrode for an Microfluidic Electro-Analytical Origami Device. <i>Advanced Functional Materials</i> , 2013 , 23, 3115-3123	15.6	101
167	Mixed-Matrix Membranes with Metal-Organic Framework-Decorated CNT Fillers for Efficient CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14750-7	9.5	96
166	Enhanced gas permeability by fabricating functionalized multi-walled carbon nanotubes and polyethersulfone nanocomposite membrane. <i>Separation and Purification Technology</i> , 2011 , 78, 76-82	8.3	96
165	Properties and performance of A-site deficient (Ba _{0.5} Sr _{0.5}) _{1-x} Co _{0.8} Fe _{0.2} O ₃ for oxygen permeating membrane. <i>Journal of Membrane Science</i> , 2007 , 306, 318-328	9.6	96
164	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	11.8	91
163	A disposable paper-based electrochemical sensor with an addressable electrode array for cancer screening. <i>Chemical Communications</i> , 2012 , 48, 9397-9	5.8	91
162	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, 220-6	11.8	89
161	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, 2212-9	7.8	89
160	In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced CO ₂ adsorption. <i>Dalton Transactions</i> , 2014 , 43, 7028-36	4.3	87
159	A disposable electrochemical immunosensor based on carbon screen-printed electrodes for the detection of prostate specific antigen. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 355-61	11.8	86
158	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	11.8	80
157	Halloysite-Nanotube-Supported Ru Nanoparticles for Ammonia Catalytic Decomposition to Produce CO _x -Free Hydrogen. <i>Energy & Fuels</i> , 2011 , 25, 3408-3416	4.1	80
156	Molecularly imprinted polymer grafted paper-based multi-disk micro-disk plate for chemiluminescence detection of pesticide. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 262-8	11.8	76
155	A paper-based photoelectrochemical immunoassay for low-cost and multiplexed point-of-care testing. <i>Chemical Communications</i> , 2013 , 49, 3294-6	5.8	75
154	Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13264-13270	3.8	75
153	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	6.6	74
152	A microfluidic origami electrochemiluminescence aptamer-device based on a porous Au-paper electrode and a phenyleneethynylene derivative. <i>Chemical Communications</i> , 2013 , 49, 1383-5	5.8	74
151	Anti-fouling membranes by manipulating surface wettability and their anti-fouling mechanism. <i>Desalination</i> , 2017 , 413, 127-135	10.3	73

150	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, 1947-9	5.8	72
149	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	6.7	72
148	Simple and covalent fabrication of a paper device and its application in sensitive chemiluminescence immunoassay. <i>Analyst, The</i> , 2012 , 137, 3821-7	5	72
147	Visible light photoelectrochemical sensor based on Au nanoparticles and molecularly imprinted poly(o-phenylenediamine)-modified TiO ₂ nanotubes for specific and sensitive detection chlorpyrifos. <i>Analyst, The</i> , 2013 , 138, 939-45	5	72
146	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	3.8	72
145	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. <i>Chemistry of Materials</i> , 2011 , 23, 4193-4198	9.6	72
144	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	11.8	71
143	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, 3945-55	7.2	69
142	Direct-Laser-Writing of Metal Sulfide-Graphene Nanocomposite Photoelectrode toward Sensitive Photoelectrochemical Sensing. <i>Advanced Functional Materials</i> , 2019 , 29, 1904000	15.6	66
141	Versatile and Programmable DNA Logic Gates on Universal and Label-Free Homogeneous Electrochemical Platform. <i>Analytical Chemistry</i> , 2016 , 88, 9691-9698	7.8	66
140	Evaluation and optimization of Bi _{1-x} Sr _x FeO _{3-δ} perovskites as cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3179-3186	6.7	64
139	Synthesis and characterization of graphene nanosheets attached to spiky MnO ₂ nanospheres and its application in ultrasensitive immunoassay. <i>Carbon</i> , 2013 , 57, 22-33	10.4	60
138	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	13.6	59
137	A Universal Paper-Based Electrochemical Sensor for Zero-Background Assay of Diverse Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15381-15388	9.5	59
136	Multiplex electrochemical origami immunodevice based on cuboid silver-paper electrode and metal ions tagged nanoporous silver-chitosan. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 167-73	11.8	59
135	Lab-on-paper-based devices using chemiluminescence and electrogenerated chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 5613-30	4.4	59
134	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, 111-7	11.8	59
133	Electrophoretic separation in a microfluidic paper-based analytical device with an on-column wireless electrogenerated chemiluminescence detector. <i>Chemical Communications</i> , 2014 , 50, 5699-702	5.8	57

132	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	35.4	56
131	Ratiometric NanoCluster Beacon: A Label-Free and Sensitive Fluorescent DNA Detection Platform. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13102-13110	9.5	55
130	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	8.5	52
129	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, 1704-9	4.4	51
128	Synthesis and characterization of three amino-functionalized metal-organic frameworks based on the 2-aminoterephthalic ligand. <i>Dalton Transactions</i> , 2015 , 44, 8190-7	4.3	50
127	Electro-Grafted Electrode with Graphene-Oxide-Like DNA Affinity for Ratiometric Homogeneous Electrochemical Biosensing of MicroRNA. <i>Analytical Chemistry</i> , 2017 , 89, 11560-11567	7.8	48
126	Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6084-6090	13	48
125	A disposable immunosensor device for point-of-care test of tumor marker based on copper-mediated amplification. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 425-31	11.8	47
124	Highly active nickel-cobalt/nanocarbon thin films as efficient water splitting electrodes. <i>Nanoscale</i> , 2016 , 8, 18507-18515	7.7	47
123	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	11.8	46
122	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O ₆ Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011 , 23, 1618-1624	9.6	46
121	Oxygen selective membranes based on B-site cation-deficient (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2}) _y O ₃ perovskite with improved operational stability. <i>Journal of Membrane Science</i> , 2008 , 318, 182-190	9.6	44
120	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021 , 17, e2101573	11	44
119	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	8.5	43
118	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	8.5	42
117	Graphene-Assisted Label-Free Homogeneous Electrochemical Biosensing Strategy based on Aptamer-Switched Bidirectional DNA Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28566-75	9.5	42
116	A disposable simultaneous electrochemical sensor array based on a molecularly imprinted film at a NH ₂ -graphene modified screen-printed electrode for determination of psychotropic drugs. <i>Analyst</i> , 2013 , 138, 2704-11	5	42
115	Ratiometric Catalyzed-Assembly of NanoCluster Beacons: A Nonenzymatic Approach for Amplified DNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32089-32096	9.5	41

114	Hierarchically structured metal-organic framework/vertically-aligned carbon nanotubes hybrids for CO ₂ capture. <i>RSC Advances</i> , 2013 , 3, 25360	3.7	39
113	Halloysite Nanotube Supported Ru Nanocatalysts Synthesized by the Inclusion of Preformed Ru Nanoparticles for Preferential Oxidation of CO in H ₂ -Rich Atmosphere. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4141-4151	3.8	37
112	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, 2065-70	11.8	37
111	Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. <i>Separation and Purification Technology</i> , 2017 , 173, 63-71	8.3	36
110	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	10.4	36
109	Calcium Looping for CO ₂ Capture at a Constant High Temperature. <i>Energy & Fuels</i> , 2014 , 28, 307-318	4.1	35
108	Toward Excellence of Transition Metal-Based Catalysts for CO ₂ Electrochemical Reduction: An Overview of Strategies and Rationales. <i>Small Methods</i> , 2020 , 4, 2000033	12.8	35
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, 12453-62	4.8	34
106	The preparation of activated carbon discs from tar pitch and coal powder for adsorption of CO ₂ , CH ₄ and N ₂ . <i>Microporous and Mesoporous Materials</i> , 2017 , 238, 19-26	5.3	34
105	Facile autocombustion synthesis of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ (LSCF) perovskite via a modified complexing sol-gel process with NH ₄ NO ₃ as combustion aid. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 338-347	5.7	34
104	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, 7687-9	5.8	33
103	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	8.9	32
102	Rechargeable battery-triggered electrochemiluminescence detection on microfluidic origami immunodevice based on two electrodes. <i>Chemical Communications</i> , 2012 , 48, 9971-3	5.8	31
101	Vertically-aligned carbon nanotube membranes for hydrogen separation. <i>RSC Advances</i> , 2012 , 2, 5329	3.7	30
100	Disposable electrochemical immunosensor for simultaneous assay of a panel of breast cancer tumor markers. <i>Analyst</i> , 2012 , 137, 4727-33	5	29
99	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	15.6	29
98	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO Reduction to Formate by Controlled Surface Sn Electrodeposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21670-21681	9.5	29
97	Pore channel surface modification for enhancing anti-fouling membrane distillation. <i>Applied Surface Science</i> , 2018 , 443, 217-226	6.7	27

96	Photoelectrochemical lab-on-paper device based on molecularly imprinted polymer and porous Au-paper electrode. <i>Analyst, The</i> , 2013 , 138, 4802-11	5	27
95	A laser-induced TiO ₂ -decorated graphene photoelectrode for sensitive photoelectrochemical biosensing. <i>Chemical Communications</i> , 2019 , 55, 4945-4948	5.8	26
94	Application of Au cage/Ru(bpy) ₃ ²⁺ nanostructures for the electrochemiluminescence detection of K562 cancer cells based on aptamer. <i>Sensors and Actuators B: Chemical</i> , 2015 , 214, 144-151	8.5	26
93	Enabling Process Intensification by 3 D Printing of Catalytic Structures. <i>ChemCatChem</i> , 2017 , 9, 4132-4138	3.2	26
92	Modulated Sn Oxidation States over a CuO-Derived Substrate for Selective Electrochemical CO Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22760-22770	9.5	24
91	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44300-44307	9.5	24
90	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO ₂ adsorption. <i>Composites Communications</i> , 2017 , 5, 27-30	6.7	24
89	Evaluation of mixed-conducting lanthanum-strontium-cobaltite ceramic membrane for oxygen separation. <i>AIChE Journal</i> , 2009 , 55, 2603-2613	3.6	24
88	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019 , 357, 320-327	14.7	24
87	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	5.5	23
86	From scheelite BaMoO ₄ to perovskite BaMoO ₃ : Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. <i>Composites Part B: Engineering</i> , 2020 , 198, 108214	10	23
85	Highly sensitive chemiluminescence immunoassay on chitosan membrane modified paper platform using TiO ₂ nanoparticles/multiwalled carbon nanotubes as label. <i>Luminescence</i> , 2013 , 28, 496-502	2.5	23
84	TiO ₂ /graphene complex nanopaper for paper-based label-free photoelectrochemical immunoassay. <i>Electrochimica Acta</i> , 2013 , 112, 620-628	6.7	23
83	Double-site yttria-doped Sr _{1-x} Co _{1-y} O _{3-δ} perovskite oxides as oxygen semi-permeable membranes. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 477-483	5.7	23
82	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO ₂ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119945	21.8	23
81	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	11.8	22
80	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	12.6	22
79	Direct-laser-writing of three-dimensional porous graphene frameworks on indium-tin oxide for sensitive electrochemical biosensing. <i>Analyst, The</i> , 2018 , 143, 3327-3334	5	21

78	Paper-based photoelectrochemical immunosensing based on CdS QD sensitized multidimensional porous ZnO spheres promoted by carbon nanotubes. <i>Chemical Communications</i> , 2013 , 49, 10400-2	5.8	21
77	Catalyst-Electrolyte Interactions in Aqueous Reline Solutions for Highly Selective Electrochemical CO Reduction. <i>ChemSusChem</i> , 2020 , 13, 304-311	8.3	21
76	Interfacial engineering of a polymer-MOF composite by in situ vitrification. <i>Chemical Communications</i> , 2020 , 56, 3609-3612	5.8	20
75	Photoelectrochemical Sensor Based on Molecularly Imprinted Polymer-Coated TiO ₂ Nanotubes for Lindane Specific Recognition and Detection. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 703-711	3.2	20
74	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	11.8	19
73	"Sugarcoated haws on a stick"-like MWNTs-Fe ₃ O ₄ -C coaxial nanomaterial: synthesis, characterization and application in electrochemiluminescence immunoassays. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 68-74	11.8	19
72	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	5.3	19
71	A facile, sensitive, and highly specific trinitrophenol assay based on target-induced synergetic effects of acid induction and electron transfer towards DNA-templated copper nanoclusters. <i>Talanta</i> , 2016 , 160, 475-480	6.2	18
70	A near-infrared light photoelectrochemical immunosensor based on a Au-paper electrode and naphthalocyanine sensitized ZnO nanorods. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4811-4817	7.3	18
69	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E592	2.9	18
68	Effects of preparation methods on the oxygen nonstoichiometry, B-site cation valences and catalytic efficiency of perovskite La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} . <i>Ceramics International</i> , 2009 , 35, 3201-3206	5.1	18
67	Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 57, 1-10	4.6	18
66	Effect of sonication and hydrogen peroxide oxidation of carbon nanotube modifiers on the microstructure of pitch-derived activated carbon foam discs. <i>Carbon</i> , 2017 , 124, 142-151	10.4	16
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48	Monitoring of bovine serum albumin using ultrasensitive electrochemiluminescence biosensors based on multilayer CdTe quantum dots modified indium tin oxide electrodes. <i>Analytical Methods</i> , 2012 , 4, 460-466	3.2	12
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