

Jianfeng Ping

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

6,077
citations

41
h-index

76
g-index

117
ext. papers

7,842
ext. citations

11
avg, IF

6.55
L-index

#	Paper	IF	Citations
113	Anion-Selective Layered Double Hydroxide Composites-Based Osmotic Energy Conversion for Real-Time Nutrient Solution Detection.. <i>Advanced Science</i> , 2022 , e2103696	13.6	1
112	Sustainable Natural Bio-Origin Materials for Future Flexible Devices.. <i>Advanced Science</i> , 2022 , e2200560	13.6	9
111	Omnidirectional Wind Energy Harvester for Self-Powered Agro-Environmental Information Sensing. <i>Nano Energy</i> , 2021 , 106686	17.1	6
110	Recent Advances in g-C N -Based Photocatalysts for Pollutant Degradation and Bacterial Disinfection: Design Strategies, Mechanisms, and Applications. <i>Small</i> , 2021 , e2105089	11	3
109	Recent Advances in Plant Nanoscience. <i>Advanced Science</i> , 2021 , 9, e2103414	13.6	7
108	A flexible and fully integrated wearable pressure sensing chip system for multi-scenario applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26875-26884	13	4
107	Plant-protein-enabled biodegradable triboelectric nanogenerator for sustainable agriculture. <i>Fundamental Research</i> , 2021 ,		1
106	Flexible complementary circuits operating at sub-0.5 V via hybrid organic-inorganic electrolyte-gated transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
105	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. <i>ACS Nano</i> , 2021 , 15, 5307-5315	16.7	32
104	Water-Wave Driven Route Avoidance Warning System for Wireless Ocean Navigation. <i>Advanced Energy Materials</i> , 2021 , 11, 2101116	21.8	19
103	A stretchable and conductive fiber for multifunctional sensing and energy harvesting. <i>Nano Energy</i> , 2021 , 84, 105954	17.1	21
102	Highly Efficient Raindrop Energy-Based Triboelectric Nanogenerator for Self-Powered Intelligent Greenhouse. <i>ACS Nano</i> , 2021 ,	16.7	27
101	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. <i>ACS Nano</i> , 2021 , 15, 9328-9354	16.7	10
100	Fluorinated Graphene-Enabled Durable Triboelectric Coating for Water Energy Harvesting. <i>Small</i> , 2021 , 17, e2007805	11	8
99	Recent Progress in 2D-Nanomaterial-Based Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2021 , 31, 2009994	15.6	18
98	Growth-Controllable Triboelectric Nanogenerator Based on Surface-Attached Metal-Organic Framework Layer on Living Leaf. <i>Small</i> , 2021 , 17, e2103430	11	6
97	Nanomaterial-based biosensors for agro-product safety. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116369	14.6	7

96	An easy-fabricated ordered mesoporous carbon-based electrochemical sensor for the analysis of trans-resveratrol in red wines. <i>Food Control</i> , 2021 , 129, 108203	6.2	1
95	Carbon nanomaterial-based nanogenerators for harvesting energy from environment. <i>Nano Energy</i> , 2021 , 90, 106494	17.1	5
94	A flexible virtual sensor array based on laser-induced graphene and MXene for detecting volatile organic compounds in human breath. <i>Analyst, The</i> , 2021 , 146, 5704-5713	5	7
93	Magnetic particles for integrated nucleic acid purification, amplification and detection without pipetting. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 127, 115912	14.6	13
92	Transition Metal Dichalcogenide-Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24521-24530	9.5	33
91	Recent advances in solid-contact ion-selective electrodes: functional materials, transduction mechanisms, and development trends. <i>Chemical Society Reviews</i> , 2020 , 49, 4405-4465	58.5	106
90	End-point dual specific detection of nucleic acids using CRISPR/Cas12a based portable biosensor. <i>Biosensors and Bioelectronics</i> , 2020 , 157, 112153	11.8	35
89	One-step and large-scale fabrication of flexible and wearable humidity sensor based on laser-induced graphene for real-time tracking of plant transpiration at bio-interface. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112360	11.8	73
88	Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals. <i>Small</i> , 2020 , 16, e1907282	11	12
87	Two-dimensional nanocomposite-based electrochemical sensor for rapid determination of trans-resveratrol. <i>Science of the Total Environment</i> , 2020 , 742, 140351	10.2	6
86	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications. <i>Biosensors and Bioelectronics</i> , 2020 , 156, 112085	11.8	50
85	One-Step and Spontaneous in Situ Growth of Popcorn-like Nanostructures on Stretchable Double-Twisted Fiber for Ultrasensitive Textile Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10689-10696	9.5	41
84	Evaluation of trans-resveratrol level in grape wine using laser-induced porous graphene-based electrochemical sensor. <i>Science of the Total Environment</i> , 2020 , 714, 136687	10.2	26
83	Nucleic acid amplification free biosensors for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112049	11.8	52
82	A multifunctional TENG yarn integrated into agrotexile for building intelligent agriculture. <i>Nano Energy</i> , 2020 , 74, 104863	17.1	37
81	A self-charging device with bionic self-cleaning interface for energy harvesting. <i>Nano Energy</i> , 2020 , 73, 104738	17.1	30
80	Contamination-free visual detection of CaMV35S promoter amplicon using CRISPR/Cas12a coupled with a designed reaction vessel: Rapid, specific and sensitive. <i>Analytica Chimica Acta</i> , 2020 , 1096, 130-137	6.6	27
79	Spontaneous growth and regulation of noble metal nanoparticles on flexible biomimetic MXene paper for bioelectronics. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111799	11.8	50

78	A Flexible, Recyclable, and High-Performance Pullulan-Based Triboelectric Nanogenerator (TENG). <i>Advanced Materials Technologies</i> , 2020 , 5, 1900905	6.8	8
77	Visual detection for nucleic acid-based techniques as potential on-site detection methods. A review. <i>Analytica Chimica Acta</i> , 2020 , 1099, 1-15	6.6	38
76	Contamination-free visual detection of SARS-CoV-2 with CRISPR/Cas12a: A promising method in the point-of-care detection. <i>Biosensors and Bioelectronics</i> , 2020 , 169, 112642	11.8	59
75	Biotriboelectric Nanogenerators: Materials, Structures, and Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2002001	21.8	20
74	Smart plant-wearable biosensor for in-situ pesticide analysis. <i>Biosensors and Bioelectronics</i> , 2020 , 170, 112636	11.8	39
73	Noble metal alloy nanoparticles coated flexible MoS paper for the determination of reactive oxygen species. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112463	11.8	9
72	Progress in molecular detection with high-speed nucleic acids thermocyclers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 190, 113489	3.5	2
71	Structure, synthesis, and sensing applications of single-walled carbon nanohorns. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112495	11.8	11
70	Recent Advances in Nanomaterial-Enabled Wearable Sensors: Material Synthesis, Sensor Design, and Personal Health Monitoring. <i>Small</i> , 2020 , 16, e2002681	11	55
69	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44281-44287	9.5	12
68	Phase-dependent ion-to-electron transducing efficiency of WS nanosheets for an all-solid-state potentiometric calcium sensor. <i>Mikrochimica Acta</i> , 2020 , 187, 525	5.8	1
67	Noble Metal Regeneration: Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals (Small 33/2020). <i>Small</i> , 2020 , 16, 2070184	11	2
66	Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121358	12.8	79
65	Recent developments in carbon nanomaterial-enabled electrochemical sensors for nitrite detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 113, 1-12	14.6	86
64	Development of a Graphene Paper-Based Flexible Solid-Contact Lead Ion-Selective Electrode and its Application in Water. <i>Transactions of the ASABE</i> , 2019 , 62, 245-252	0.9	8
63	A Filter Paper-Based Nanogenerator via Water-Drop Flow. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900032	3.2	9
62	Colorimetric aggregation assay for kanamycin using gold nanoparticles modified with hairpin DNA probes and hybridization chain reaction-assisted amplification. <i>Mikrochimica Acta</i> , 2019 , 186, 448	5.8	33
61	Highly conductive 1D-2D composite film for skin-mountable strain sensor and stretchable triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 62, 319-328	17.1	61

60	Fully stretchable triboelectric nanogenerator for energy harvesting and self-powered sensing. <i>Nano Energy</i> , 2019 , 61, 78-85	17.1	48
59	Recent advances in nanomaterial-enabled screen-printed electrochemical sensors for heavy metal detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 115, 187-202	14.6	111
58	Ultrathin transition-metal dichalcogenide nanosheet-based colorimetric sensor for sensitive and label-free detection of DNA. <i>Sensors and Actuators B: Chemical</i> , 2019 , 290, 565-572	8.5	23
57	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. <i>Nano Energy</i> , 2019 , 59, 268-276	17.1	174
56	Advanced DNA-based methods for the detection of peanut allergens in processed food. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 278-292	14.6	19
55	Flexible freestanding graphene paper-based potentiometric enzymatic aptasensor for ultrasensitive wireless detection of kanamycin. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 178-184	11.8	89
54	Simultaneous determination of Cd(II) and Pb(II) ions in honey and milk samples using a single-walled carbon nanohorns modified screen-printed electrochemical sensor. <i>Food Chemistry</i> , 2019 , 274, 8-15	8.5	93
53	A disposable electrochemical sensor based on electrospinning of molecularly imprinted nanohybrid films for highly sensitive determination of the organotin acaricide cyhexatin. <i>Mikrochimica Acta</i> , 2019 , 186, 504	5.8	4
52	A multifunctional and highly flexible triboelectric nanogenerator based on MXene-enabled porous film integrated with laser-induced graphene electrode. <i>Nano Energy</i> , 2019 , 66, 104121	17.1	78
51	Two-dimensional MXene nanosheets (types TiCT and TiCT) as new ion-to-electron transducers in solid-contact calcium ion-selective electrodes. <i>Mikrochimica Acta</i> , 2019 , 186, 750	5.8	18
50	All-solid-state potentiometric sensor using single-walled carbon nanohorns as transducer. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 284-289	8.5	27
49	Recent progress in application of nanomaterial-enabled biosensors for ochratoxin A detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 102, 236-249	14.6	69
48	Counting DNA molecules with visual segment-based readouts in minutes. <i>Chemical Communications</i> , 2018 , 54, 1105-1108	5.8	10
47	Recent advances in graphene-based freestanding paper-like materials for sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 75-88	14.6	42
46	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 106, 62-83	14.6	78
45	Phase-Dependent Fluorescence Quenching Efficiency of MoS Nanosheets and Their Applications in Multiplex Target Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42009-42017	9.5	31
44	Recent advances in emerging DNA-based methods for genetically modified organisms (GMOs) rapid detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 109, 19-31	14.6	22
43	Fully Written Flexible Potentiometric Sensor Using Two-Dimensional Nanomaterial-Based Conductive Ink. <i>Analytical Chemistry</i> , 2018 , 90, 13088-13095	7.8	22

42	An anti-passivation ink for the preparation of electrodes for use in electrochemical immunoassays. <i>Journal of Zhejiang University: Science B</i> , 2018 , 19, 726-734	4.5	2
41	Metallic Transition Metal Dichalcogenide Nanosheets as an Effective and Biocompatible Transducer for Electrochemical Detection of Pesticide. <i>Analytical Chemistry</i> , 2018 , 90, 11658-11664	7.8	51
40	An unmodified gold nanorods-based DNA colorimetric biosensor with enzyme-free hybridization chain reaction amplification. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 642-648	8.5	26
39	Recent advances in nanomaterial-based biosensors for antibiotics detection. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 504-514	11.8	232
38	Nanosheet Sensors: Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites (Adv. Funct. Mater. 19/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
37	Rapid Fabrication of Flexible and Stretchable Strain Sensor by Chitosan-Based Water Ink for Plants Growth Monitoring. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700021	6.8	35
36	Recent Progress in Nanomaterial-Based Optical Aptamer Assay for the Detection of Food Chemical Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23287-23301	9.5	87
35	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1605817	15.6	137
34	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016 , 12, 4669-74	11	88
33	Self-Assembly of Single-Layer CoAl-Layered Double Hydroxide Nanosheets on 3D Graphene Network Used as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2016 , 28, 7640-5	24	296
32	Bioinspired Design of Ultrathin 2D Bimetallic Metal-Organic-Framework Nanosheets Used as Biomimetic Enzymes. <i>Advanced Materials</i> , 2016 , 28, 4149-55	24	320
31	Electrochemical doping of three-dimensional graphene networks used as efficient electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 9394-8	7.7	48
30	Adhesive curing through low-voltage activation. <i>Nature Communications</i> , 2015 , 6, 8050	17.4	44
29	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 373-85	11.8	148
28	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015 , 27, 7372-8	24	684
27	Novel Photochrome Aptamer Switch Assay (PHASA) for adaptive binding to aptamers. <i>Journal of Fluorescence</i> , 2014 , 24, 1581-91	2.4	10
26	Development of an aptamer-based impedimetric bioassay using microfluidic system and magnetic separation for protein detection. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 106-11	11.8	30
25	Development of an electrochemically reduced graphene oxide modified disposable bismuth film electrode and its application for stripping analysis of heavy metals in milk. <i>Food Chemistry</i> , 2014 , 151, 65-71	8.5	128

24	High-performance flexible potentiometric sensing devices using free-standing graphene paper. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4781-4791	7.3	49
23	Design and synthesis of a task-specific ionic liquid as a transducer in potentiometric sensors. <i>RSC Advances</i> , 2013 , 3, 19782	3.7	10
22	Impedimetric immunosensor based on gold nanoparticles modified graphene paper for label-free detection of Escherichia coli O157:H7. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 492-8	11.8	152
21	Screen-Printed Potentiometric Strip for Calcium Ion Determination in Water and Milk. <i>Transactions of the ASABE</i> , 2013 , 56, 739-744	0.9	4
20	Determination of Inorganic Phosphate in Environmental Water Using Cobalt Film Modified Ionic Liquid-Carbon Paste Electrode. <i>Transactions of the ASABE</i> , 2013 , 56, 779-785	0.9	5
19	Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 70-6	11.8	317
18	A novel pH sensing membrane based on an ionic liquid-polymer composite. <i>Mikrochimica Acta</i> , 2012 , 176, 229-234	5.8	11
17	Determination of ascorbic acid levels in food samples by using an ionic liquid-carbon nanotube composite electrode. <i>Food Chemistry</i> , 2012 , 135, 362-7	8.5	37
16	All-solid-state nitrate-selective electrode and its application in drinking water. <i>Electrochimica Acta</i> , 2012 , 81, 186-190	6.7	34
15	Application of electrochemically reduced graphene oxide on screen-printed ion-selective electrode. <i>Analytical Chemistry</i> , 2012 , 84, 3473-9	7.8	135
14	Sensitive determination of (-)-epigallocatechin gallate in tea infusion using a novel ionic liquid carbon paste electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6333-40	5.7	38
13	Determination of trace heavy metals in milk using an ionic liquid and bismuth oxide nanoparticles modified carbon paste electrode. <i>Science Bulletin</i> , 2012 , 57, 1781-1787		30
12	Evaluation of trace heavy metal levels in soil samples using an ionic liquid modified carbon paste electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 4418-23	5.7	49
11	Development of a Novel Carbon Composite Electrode for Trace Determination of Heavy Metals in Milk. <i>Transactions of the ASABE</i> , 2011 , 54, 1829-1835	0.9	7
10	Development of an all-solid-state potassium ion-selective electrode using graphene as the solid-contact transducer. <i>Electrochemistry Communications</i> , 2011 , 13, 1529-1532	5.1	116
9	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 204-9	11.8	196
8	Triphenylamine as a conductive solid material for fabricating carbon electrodes. <i>Mikrochimica Acta</i> , 2011 , 172, 241-245	5.8	5
7	The use of the platinum electrode coated with ultrathin poly(allylamine hydrochloride)/Nafion films for selective detection of hydrogen peroxide. <i>Ionics</i> , 2011 , 17, 443-449	2.7	4

6	Direct electrochemistry of double strand DNA on ionic liquid modified screen-printed graphite electrode. <i>Electrochimica Acta</i> , 2011 , 56, 4154-4158	6.7	6
5	An amperometric sensor based on Prussian blue and poly(o-phenylenediamine) modified glassy carbon electrode for the determination of hydrogen peroxide in beverages. <i>Food Chemistry</i> , 2011 , 126, 2005-9	8.5	45
4	Copper oxide nanoparticles and ionic liquid modified carbon electrode for the non-enzymatic electrochemical sensing of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2010 , 171, 117-123	5.8	78
3	A Prussian blue-based amperometric sensor for the determination of hydrogen peroxide residues in milk. <i>Ionics</i> , 2010 , 16, 523-527	2.7	26
2	Development of an ionic liquid modified screen-printed graphite electrode and its sensing in determination of dopamine. <i>Electrochemistry Communications</i> , 2010 , 12, 1738-1741	5.1	49
1	Stimulation of ambient energy generated electric field on crop plant growth. <i>Nature Food</i> ,	14.4	17