Yi-Tao Long

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.

378 papers	14,460 citations	65 h-index	101 g-index
415 ext. papers	16,243 ext. citations	7.5 avg, IF	7.09 L-index

#	Paper	IF	Citations
378	Full Width at Half Maximum of Nanopore Current Blockage Controlled by a Single-Biomolecule Interface.. *Langmuir*, **2022**,	4	1
377	Electrochemically confined effects on single enzyme detection with nanopipettes. *Journal of Electroanalytical Chemistry*, **2022**, 908, 116086	4.1	0
376	An engineered third electrostatic constriction of aerolysin to manipulate heterogeneously charged peptide transport.. *Chemical Science*, **2022**, 13, 2456-2461	9.4	2
375	Profiling single-molecule reaction kinetics under nanopore confinement.. *Chemical Science*, **2022**, 13, 4109-4114	9.4	1
374	Proton-Coupled Electron Transfer of Coenzyme Q in Unbuffered Solution by Pore Confined In Situ Liquid ToF-SIMS. *Journal of the Electrochemical Society*, **2022**, 169, 026525	3.9	0
373	A Two-Step Calibration Method for Evaluation High Bandwidth Electrochemical Instrument. *Journal of Electroanalytical Chemistry*, **2022**, 116266	4.1	1
372	Optical-Facilitated Single-Entity Electrochemistry. *Current Opinion in Electrochemistry*, **2022**, 100999	7.2	2
371	Nanopore electrochemical measurement for single-molecular interactions and beyond. *Current Opinion in Electrochemistry*, **2022**, 101063	7.2	0
370	Titelbild: Single-Molecule Frequency Fingerprint for Ion Interaction Networks in a Confined Nanopore (Angew. Chem. 46/2021). *Angewandte Chemie*, **2021**, 133, 24537-24537	3.6	
369	Nanoconfined Electrochemical Sensing of Single Silver Nanoparticles with a Wireless Nanopore Electrode. *ACS Sensors*, **2021**, 6, 335-339	9.2	9
368	In situ food-borne pathogen sensors in a nanoconfined space by surface enhanced Raman scattering. *Mikrochimica Acta*, **2021**, 188, 201	5.8	2
367	Revisiting the Origin of Nanopore Current Blockage for Volume Difference Sensing at the Atomic Level. *Jacs Au*, **2021**, 1, 967-976		19
366	An Envelope Algorithm for Single Nanoparticle Collision Electrochemistry *Chinese Journal of Chemistry*, **2021**, 39, 1936-1940	4.9	3
365	Stochastic Collision Photoelectrochemistry for Light-Induced Electron Transfer Dynamics. *ChemElectroChem*, **2021**, 8, 3221-3228	4.3	3
364	Tracking the Electrocatalytic Activity of a Single Palladium Nanoparticle for the Hydrogen Evolution Reaction. *Chemistry - A European Journal*, **2021**, 27, 11799-11803	4.8	4
363	Biological Nanopore Approach for Single-Molecule Protein Sequencing. *Angewandte Chemie - International Edition*, **2021**, 60, 14738-14749	16.4	37
362	Biological Nanopore Approach for Single-Molecule Protein Sequencing. *Angewandte Chemie*, **2021**, 133, 14862-14873	3.6	12

361	Instrumentational implementation for parallelized nanopore electrochemical measurements. *Analyst, The*, **2021**, 146, 4111-4120	5	5
360	Investigation of Lipid Metabolism in Dynamic Progression of Coronary Artery Atherosclerosis of Humans by Time-of-Flight Secondary Ion Mass Spectrometry. *Analytical Chemistry*, **2021**, 93, 3839-3847	7.8	4
359	Is the Volume Exclusion Model Practicable for Nanopore Protein Sequencing?. *Analytical Chemistry*, **2021**, 93, 11364-11369	7.8	3
358	Understanding the Dynamic Potential Distribution at the Electrode Interface by Stochastic Collision Electrochemistry. *Journal of the American Chemical Society*, **2021**, 143, 12428-12432	16.4	4
357	Enhanced identification of Tau acetylation and phosphorylation with an engineered aerolysin nanopore. *Proteomics*, **2021**, e2100041	4.8	3
356	Single-Molecule Frequency Fingerprint for Ion Interaction Networks in a Confined Nanopore. *Angewandte Chemie - International Edition*, **2021**, 60, 24582-24587	16.4	6
355	Snapshotting the transient conformations and tracing the multiple pathways of single peptide folding using a solid-state nanopore. *Chemical Science*, **2021**, 12, 3282-3289	9.4	18
354	Nanopore-based measurement of the interaction of P450cam monooxygenase and putidaredoxin at the single-molecule level. *Faraday Discussions*, **2021**,	3.6	3
353	An advanced optical-electrochemical nanopore measurement system for single-molecule analysis.. *Review of Scientific Instruments*, **2021**, 92, 121301	1.7	1
352	Analysis and classification of nanopore data based on feature-level multi-modality **2020**,		1
351	T232K/K238Q Aerolysin Nanopore for Mapping Adjacent Phosphorylation Sites of a Single Tau Peptide. *Small Methods*, **2020**, 4, 2000014	12.8	19
350	Exploring dynamic interactions of single nanoparticles at interfaces for surface-confined electrochemical behavior and size measurement. *Nature Communications*, **2020**, 11, 2307	17.4	31
349	Electrochemical Sensing at a Confined Space. *Analytical Chemistry*, **2020**, 92, 5621-5644	7.8	97
348	Plasmon-Induced Photoreduction System Allows Ultrasensitive Detection of Disease Biomarkers by Silver-Mediated Immunoassay. *ACS Sensors*, **2020**, 5, 2184-2190	9.2	6
347	Measuring temperature effects on nanobubble nucleation via a solid-state nanopore. *Analyst, The*, **2020**, 145, 2510-2514	5	2
346	Direct Quantification of Damaged Nucleotides in Oligonucleotides Using an Aerolysin Single Molecule Interface. *ACS Central Science*, **2020**, 6, 76-82	16.8	23
345	Enzyme-free amplified SERS immunoassay for the ultrasensitive detection of disease biomarkers. *Chemical Communications*, **2020**, 56, 2933-2936	5.8	16
344	Monitoring nanobubble nucleation at early-stage within a sub-9□hm solid-state nanopore. *Electrophoresis*, **2020**, 41, 959-965	3.6	2

343	The analysis of single cysteine molecules with an aerolysin nanopore. *Analyst, The*, **2020**, 145, 1179-1183	5	17
342	Unveiling the Heterogenous Dephosphorylation of DNA Using an Aerolysin Nanopore. *ACS Nano*, **2020**, 14, 12571-12578	16.7	6
341	Diversified exploitation of aerolysin nanopore in single-molecule sensing and protein sequencing. *View*, **2020**, 1, 20200006	7.8	6
340	A Course of Hands-On Nanopore Experiments for Undergraduates: Single-Molecule Detection with Portable Electrochemical Instruments. *Journal of Chemical Education*, **2020**, 97, 4345-4354	2.4	4
339	pH-Dependent Water Clusters in Photoacid Solution: Real-Time Observation by ToF-SIMS at a Submicropore Confined Liquid-Vacuum Interface. *Frontiers in Chemistry*, **2020**, 8, 731	5	2
338	Rapid ultrasensitive monitoring the single-particle surface-enhanced Raman scattering (SERS) using a dark-field microspectroscopy assisted system. *Chinese Chemical Letters*, **2020**, 31, 473-475	8.1	6
337	Single-entity electrochemistry at confined sensing interfaces. *Science China Chemistry*, **2020**, 63, 589-618	7.9	27
336	Nanopore-Based Single-Biomolecule Interfaces: From Information to Knowledge. *Journal of the American Chemical Society*, **2019**, 141, 15720-15729	16.4	89
335	A lithium-ion-active aerolysin nanopore for effectively trapping long single-stranded DNA. *Chemical Science*, **2019**, 10, 354-358	9.4	28
334	Real-time monitoring of electrochemical reactions on single nanoparticles by dark-field and Raman microscopy. *Dalton Transactions*, **2019**, 48, 3809-3814	4.3	10
333	A Wild-Type Nanopore Sensor for Protein Kinase Activity. *Analytical Chemistry*, **2019**, 91, 9910-9915	7.8	25
332	Wireless nanopore electrodes for analysis of single entities. *Nature Protocols*, **2019**, 14, 2015-2035	18.8	31
331	Correlated Anodic-Cathodic Nanocollision Events Reveal Redox Behaviors of Single Silver Nanoparticles. *Journal of Physical Chemistry Letters*, **2019**, 10, 3276-3281	6.4	12
330	On-surface synthesis of planar dendrimers via divergent cross-coupling reaction. *Nature Communications*, **2019**, 10, 2414	17.4	9
329	Revisiting a classical redox process on a gold electrode by operando ToF-SIMS: where does the gold go?. *Chemical Science*, **2019**, 10, 6215-6219	9.4	10
328	Learning Shapelets for Improving Single-Molecule Nanopore Sensing. *Analytical Chemistry*, **2019**, 91, 10033-10039	7.8	20
327	Simultaneous Removal of Multiple Heavy Metal Ions from River Water Using Ultrafine Mesoporous Magnetite Nanoparticles. *ACS Omega*, **2019**, 4, 7543-7549	3.9	49
326	Single Nanoparticle Electrochemistry. *Annual Review of Analytical Chemistry*, **2019**, 12, 347-370	12.5	32

325	Aerolysin Nanopore Identification of Single Nucleotides Using the AdaBoost Model. *Journal of Analysis and Testing*, **2019**, 3, 134-139	3.2	9
324	Understanding How Ambiance Affects the Performance of Hole-Conductor-Free Perovskite Solar Cells from a Chemical Perspective. *ACS Applied Energy Materials*, **2019**, 2, 2387-2391	6.1	3
323	Detection of structured single-strand DNA via solid-state nanopore. *Electrophoresis*, **2019**, 40, 2112-2116	3.6	4
322	Unveiling the Intrinsic Catalytic Activities of Single-Gold-Nanoparticle-Based Enzyme Mimetics. *Angewandte Chemie - International Edition*, **2019**, 58, 6327-6332	16.4	45
321	Unveiling the Intrinsic Catalytic Activities of Single-Gold-Nanoparticle-Based Enzyme Mimetics. *Angewandte Chemie*, **2019**, 131, 6393-6398	3.6	18
320	Detection of Single Proteins with a General Nanopore Sensor. *ACS Sensors*, **2019**, 4, 1185-1189	9.2	22
319	Label-Free Detection of Solo Oligonucleotide Lesion Based on Site-Direct Mutagenized Aerolysin Nanopore. *Biophysical Journal*, **2019**, 116, 148a	2.9	2
318	A Closed-Type Wireless Nanopore Electrode for Analyzing Single Nanoparticles. *Journal of Visualized Experiments*, **2019**,	1.6	2
317	Toward Precision Measurement and Manipulation of Single-Molecule Reactions by a Confined Space. *Small*, **2019**, 15, e1805426	11	10
316	Graphene quantum dots enhanced ToF-SIMS for single-cell imaging. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4025-4030	4.4	15
315	Detektieren mit Nanopipetten im eingeschränkten Raum: von einzelnen Molekülen über Nanopartikel hin zu der Zelle. *Angewandte Chemie*, **2019**, 131, 3744-3752	3.6	15
314	Confined Nanopipette Sensing: From Single Molecules, Single Nanoparticles, to Single Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 3706-3714	16.4	122
313	An ultrasensitive photoelectrochemical platform for quantifying photoinduced electron-transfer properties of a single entity. *Nature Protocols*, **2019**, 14, 2672-2690	18.8	11
312	Single Molecule Study of Hydrogen Bond Interactions Between Single Oligonucleotide and Aerolysin Sensing Interface. *Frontiers in Chemistry*, **2019**, 7, 528	5	14
311	Ion-Specific Effects on Hydrogen Bond Network at a Submicropore Confined Liquid-Vacuum Interface: An Liquid ToF-SIMS Study. *Journal of Physical Chemistry Letters*, **2019**, 10, 4935-4941	6.4	5
310	Monitoring Hydrogen Evolution Reaction Catalyzed by MoS Quantum Dots on a Single Nanoparticle Electrode. *Analytical Chemistry*, **2019**, 91, 10361-10365	7.8	15
309	Nanopore-based sensing interface for single molecule electrochemistry. *Science China Chemistry*, **2019**, 62, 1576-1587	7.9	4
308	Confined Nanopipette-A new microfluidic approach for single cell analysis. *TrAC - Trends in Analytical Chemistry*, **2019**, 117, 39-46	14.6	17

307	Simultaneous single-molecule discrimination of cysteine and homocysteine with a protein nanopore. *Chemical Communications*, **2019**, 55, 9311-9314	5.8	23
306	Recent advances in nanocollision electrochemistry. *Science China Chemistry*, **2019**, 62, 1588-1600	7.9	8
305	The Effects of Tetramethylammonium Cation on Oligonucleotide Analysis with Aerolysin Nanopore. *ChemElectroChem*, **2019**, 6, 5086-5089	4.3	
304	A Nanopore Phosphorylation Sensor for Single Oligonucleotides and Peptides. *Research*, **2019**, 2019, 1050735	7.8	15
303	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. *Journal of the American Chemical Society*, **2019**, 141, 20187-20197	16.4	88
302	Coupled Time-of-Flight Secondary Ion Mass Spectrometry-Electrochemical Analysis of Electrode-Electrolyte Interface at High Vacuum of 10□ Pa. *Chinese Journal of Analytical Chemistry*, **2019**, 47, 1887-1892	1.6	
301	Revealing the transient conformations of a single flavin adenine dinucleotide using an aerolysin nanopore. *Chemical Science*, **2019**, 10, 10400-10404	9.4	16
300	Single molecule sensing of amyloid-□aggregation by confined glass nanopores. *Chemical Science*, **2019**, 10, 10728-10732	9.4	38
299	Direct Molecular Evidence of Proton Transfer and Mass Dynamics at the Electrode-Electrolyte Interface. *Journal of Physical Chemistry Letters*, **2019**, 10, 251-258	6.4	10
298	Pore Confined Liquid-Vacuum Interface for Charge Transfer Study in an Electrochemical Process. *Analytical Chemistry*, **2019**, 91, 3195-3198	7.8	4
297	Highly Sensitive and Selective Electrochemical Detection of Dopamine using Hybrid Bilayer Membranes. *ChemElectroChem*, **2019**, 6, 634-637	4.3	11
296	Nanopore-Based Confined Spaces for Single-Molecular Analysis. *Chemistry - an Asian Journal*, **2019**, 14, 389-397	4.5	12
295	Detection of Peptides with Different Charges and Lengths by Using the Aerolysin Nanopore. *ChemElectroChem*, **2019**, 6, 126-129	4.3	40
294	Measuring a frequency spectrum for single-molecule interactions with a confined nanopore. *Faraday Discussions*, **2018**, 210, 87-99	3.6	23
293	Real-Time and Accurate Identification of Single Oligonucleotide Photoisomers via an Aerolysin Nanopore. *Analytical Chemistry*, **2018**, 90, 4268-4272	7.8	24
292	Single Ag Nanoparticle Electro-oxidation: Potential-Dependent Current Traces and Potential-Independent Electron Transfer Kinetic. *Journal of Physical Chemistry Letters*, **2018**, 9, 1429-1433	6.4	29
291	Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with ?COOH Functional Group. *Advanced Energy Materials*, **2018**, 8, 1800715	21.8	127
290	Single-Molecule Sensing with Nanopore Confinement: From Chemical Reactions to Biological Interactions. *Chemistry - A European Journal*, **2018**, 24, 13064-13071	4.8	19

289	A General Strategy of Aerolysin Nanopore Detection for Oligonucleotides with the Secondary Structure. *Small*, **2018**, 14, e1704520	11	16
288	Pore-forming confined space for the innovative electrochemical methods. *Current Opinion in Electrochemistry*, **2018**, 10, 46-53	7.2	6
287	Rationally Designed Sensing Selectivity and Sensitivity of an Aerolysin Nanopore via Site-Directed Mutagenesis. *ACS Sensors*, **2018**, 3, 779-783	9.2	43
286	Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO -Filmed Ultramicroelectrode. *Angewandte Chemie - International Edition*, **2018**, 57, 3758-3762	16.4	40
285	Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO2-Filmed Ultramicroelectrode. *Angewandte Chemie*, **2018**, 130, 3820-3824	3.6	14
284	Biological Nanopores: Confined Spaces for Electrochemical Single-Molecule Analysis. *Accounts of Chemical Research*, **2018**, 51, 331-341	24.3	97
283	Using a Multi-Shelled Hollow Metal-Organic Framework as a Host to Switch the Guest-to-Host and Guest-to-Guest Interactions. *Angewandte Chemie - International Edition*, **2018**, 57, 2110-2114	16.4	64
282	Investigation of Silver Nanoparticle Induced Lipids Changes on a Single Cell Surface by Time-of-Flight Secondary Ion Mass Spectrometry. *Analytical Chemistry*, **2018**, 90, 1072-1076	7.8	33
281	In-situ discrimination of the water cluster size distribution in aqueous solution by ToF-SIMS. *Science China Chemistry*, **2018**, 61, 159-163	7.9	11
280	Individual Modified Carbon Nanotube Collision for Electrocatalytic Oxidation of Hydrazine in Aqueous Solution. *ACS Applied Nano Materials*, **2018**, 1, 2069-2075	5.6	10
279	Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms. *Small Methods*, **2018**, 2, 1700390	12.8	41
278	In situ and real-time ToF-SIMS analysis of light-induced chemical changes in perovskite CHNHPbI. *Chemical Communications*, **2018**, 54, 5434-5437	5.8	14
277	Biosensing: A General Strategy of Aerolysin Nanopore Detection for Oligonucleotides with the Secondary Structure (Small 18/2018). *Small*, **2018**, 14, 1870080	11	3
276	Electrocatalytic Oxidation of Tris(2-carboxyethyl)phosphine at Pyrroloquinoline Quinone Modified Carbon Nanotube through Single Nanoparticle Collision. *Analytical Chemistry*, **2018**, 90, 6059-6063	7.8	10
275	Spectroelectrochemical study of the AMP-Ag and ATP-Ag complexes using silver mesh electrodes. *Analyst, The*, **2018**, 143, 2342-2348	5	0
274	Quantifying Visible-Light-Induced Electron Transfer Properties of Single Dye-Sensitized ZnO Entity for Water Splitting. *Journal of the American Chemical Society*, **2018**, 140, 5272-5279	16.4	66
273	A single biomolecule interface for advancing the sensitivity, selectivity and accuracy of sensors. *National Science Review*, **2018**, 5, 450-452	10.8	52
272	Asymmetric Nanopore Electrode-Based Amplification for Electron Transfer Imaging in Live Cells. *Journal of the American Chemical Society*, **2018**, 140, 5385-5392	16.4	161

271	Efficient defect-controlled photocatalytic hydrogen generation based on near-infrared Cu-In-Zn-S quantum dots. *Nano Research*, **2018**, 11, 1379-1388	10	26
270	Controllable Aggregation-Induced Exocytosis Inhibition (CAIEI) of Plasmonic Nanoparticles in Cancer Cells Regulated by MicroRNA. *Molecular Pharmaceutics*, **2018**, 15, 4031-4037	5.6	16
269	Dynamics of a Molecular Plug Docked onto a Solid-State Nanopore. *Journal of Physical Chemistry Letters*, **2018**, 9, 4686-4694	6.4	28
268	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. *Science Advances*, **2018**, 4, eaat8192	14.3	224
267	Mapping the sensing spots of aerolysin for single oligonucleotides analysis. *Nature Communications*, **2018**, 9, 2823	17.4	47
266	Monitoring disulfide bonds making and breaking in biological nanopore at single molecule level. *Science China Chemistry*, **2018**, 61, 1385-1388	7.9	13
265	Quaternary two dimensional $ZnAgInS$ nanosheets for highly efficient photocatalytic hydrogen generation. *Journal of Materials Chemistry A*, **2018**, 6, 11670-11675	13	12
264	Identification of Essential Sensitive Regions of the Aerolysin Nanopore for Single Oligonucleotide Analysis. *Analytical Chemistry*, **2018**, 90, 7790-7794	7.8	46
263	A Time-Resolved Single-Molecular Train Based on Aerolysin Nanopore. *CheM*, **2018**, 4, 1893-1901	16.2	28
262	Nanopore confinement for electrochemical sensing at the single-molecule level. *Current Opinion in Electrochemistry*, **2018**, 7, 172-178	7.2	27
261	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. *Angewandte Chemie*, **2018**, 130, 1023-1027	3.6	9
260	Wearable Chemosensors: A Review of Recent Progress. *ChemistryOpen*, **2018**, 7, 118-130	2.3	25
259	Reversible redox inter-conversion of biologically active NAD/NADH derivatives bound to a gold electrode: ToF-SIMS evidence. *Chemical Communications*, **2018**, 54, 13945-13948	5.8	4
258	Real-time Event Recognition and Analysis System for Nanopore Study. *Chinese Journal of Analytical Chemistry*, **2018**, 46, 843-850	1.6	8
257	Direct Sensing of Single Native RNA with a Single-Biomolecule Interface of Aerolysin Nanopore. *Langmuir*, **2018**, 34, 14940-14945	4	11
256	Nanopore sensing system for high-throughput single molecular analysis. *Science China Chemistry*, **2018**, 61, 1483-1485	7.9	18
255	Processes at nanoelectrodes: general discussion. *Faraday Discussions*, **2018**, 210, 235-265	3.6	1
254	Dynamics of nanointerfaces: general discussion. *Faraday Discussions*, **2018**, 210, 451-479	3.6	3

253	Muscle-like Artificial Molecular Actuators for Nanoparticles. *CheM*, **2018**, 4, 2670-2684	16.2	71
252	Intrinsic Electrocatalytic Activity of Gold Nanoparticles Measured by Single Entity Electrochemistry. *ChemElectroChem*, **2018**, 5, 2982-2985	4.3	11
251	Characterization of the Dynamic Growth of the Nanobubble within the Confined Glass Nanopore. *Analytical Chemistry*, **2018**, 90, 12352-12355	7.8	16
250	Ultrafast Mapping of Subcellular Domains via Nanopipette-Based Electroosmotically Modulated Delivery into a Single Living Cell. *Analytical Chemistry*, **2018**, 90, 13744-13750	7.8	17
249	Processes at nanopores and bio-nanointerfaces: general discussion. *Faraday Discussions*, **2018**, 210, 145-171	3.6	2
248	Energy conversion at nanointerfaces: general discussion. *Faraday Discussions*, **2018**, 210, 333-351	3.6	
247	Manipulating and visualizing the dynamic aggregation-induced emission within a confined quartz nanopore. *Nature Communications*, **2018**, 9, 3657	17.4	42
246	A thumb-size electrochemical system for portable sensors. *Analyst, The*, **2018**, 143, 2760-2764	5	9
245	Investigation of the Ionization Mechanism of NAD/NADH-Modified Gold Electrodes in ToF-SIMS Analysis. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 1567-1570	3.5	
244	Using a Multi-Shelled Hollow Metal□Organic Framework as a Host to Switch the Guest-to-Host and Guest-to-Guest Interactions. *Angewandte Chemie*, **2018**, 130, 2132-2136	3.6	17
243	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. *Angewandte Chemie - International Edition*, **2018**, 57, 1011-1015	16.4	69
242	Surface components of PM 2.5 during clear and hazy days in Shanghai by ToF-SIMS. *Atmospheric Environment*, **2017**, 148, 175-181	5.3	16
241	Recent advances in real-time and in situ analysis of an electrode-electrolyte interface by mass spectrometry. *Analyst, The*, **2017**, 142, 691-699	5	28
240	Stochastic Collision Nanoelectrochemistry: A Review of Recent Developments. *ChemElectroChem*, **2017**, 4, 977-985	4.3	66
239	An Ultrasensitive Plasmonic Nanosensor for Aldehydes. *ACS Sensors*, **2017**, 2, 263-267	9.2	19
238	High-bandwidth nanopore data analysis by using a modified hidden Markov model. *Nanoscale*, **2017**, 9, 3458-3465	7.7	23
237	Advanced electroanalytical chemistry at nanoelectrodes. *Chemical Science*, **2017**, 8, 3338-3348	9.4	85
236	Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore. *Chemical Communications*, **2017**, 53, 3539-3542	5.8	37

235	0D-2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. *Advanced Materials*, **2017**, 29, 1605646	24	73
234	Cosensitized Porphyrin System for High-Performance Solar Cells with TOF-SIMS Analysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 16081-16090	9.5	8
233	Dynamic Self-Assembly of Homogenous Microcyclic Structures Controlled by a Silver-Coated Nanopore. *Small*, **2017**, 13, 1700234	11	25
232	Analysis of the electron transfer properties of carbon quantum dots on gold nanorod surfaces via plasmonic resonance scattering spectroscopy. *Chemical Communications*, **2017**, 53, 5729-5732	5.8	12
231	Reflecting on How ACS Sensors Can Help Advance the Field of Sensing. *ACS Sensors*, **2017**, 2, 455-456	9.2	
230	Dual-channel signals for intracellular mRNA detection via a PRET nanosensor. *Chemical Communications*, **2017**, 53, 7768-7771	5.8	18
229	A Two-Stage Dissociation System for Multilayer Imaging of Cancer Biomarker-Synergic Networks in Single Cells. *Angewandte Chemie - International Edition*, **2017**, 56, 4802-4805	16.4	37
228	A Two-Stage Dissociation System for Multilayer Imaging of Cancer Biomarker-Synergic Networks in Single Cells. *Angewandte Chemie*, **2017**, 129, 4880-4883	3.6	7
227	Mussel-Inspired Polydopamine Functionalized Plasmonic Nanocomposites for Single-Particle Catalysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 3016-3023	9.5	27
226	Tracking motion trajectories of individual nanoparticles using time-resolved current traces. *Chemical Science*, **2017**, 8, 1854-1861	9.4	96
225	Single plasmonic nanoparticles as ultrasensitive sensors. *Analyst, The*, **2017**, 142, 409-420	5	49
224	Sugar-Coated Nanobullet: Growth Inhibition of Cancer Cells Induced by Metformin-Loaded Glyconanoparticles. *ChemMedChem*, **2017**, 12, 1823-1827	3.7	10
223	Selective and Sensitive Detection of Methylcytosine by Aerolysin Nanopore under Serum Condition. *Analytical Chemistry*, **2017**, 89, 11685-11689	7.8	41
222	Direct sensing of cancer biomarkers in clinical samples with a designed nanopore. *Chemical Communications*, **2017**, 53, 11564-11567	5.8	51
221	Direct Readout of Single Nucleobase Variations in an Oligonucleotide. *Small*, **2017**, 13, 1702011	11	35
220	August 2017: Two Years of Submissions. *ACS Sensors*, **2017**, 2, 1068-1069	9.2	
219	Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis. *Nature Protocols*, **2017**, 12, 1901-1911	18.8	39
218	Intelligent identification of multi-level nanopore signatures for accurate detection of cancer biomarkers. *Chemical Communications*, **2017**, 53, 10176-10179	5.8	28

217	Ultra-low noise measurements of nanopore-based single molecular detection. *Science Bulletin*, **2017**, 62, 1245-1250	10.6	16
216	Single-molecule analysis in an electrochemical confined space. *Science China Chemistry*, **2017**, 60, 1187-1190	7.3	55
215	Label-Free Monitoring of Single Molecule Immunoreaction with a Nanopipette. *Analytical Chemistry* , **2017**, 89, 8203-8206	7.8	44
214	Secondary ion mass spectrometry: The application in the analysis of atmospheric particulate matter. *Analytica Chimica Acta*, **2017**, 989, 1-14	6.6	29
213	Structural stability of the photo-responsive DNA duplexes containing one azobenzene via a confined pore. *Chemical Communications*, **2017**, 53, 9462-9465	5.8	24
212	Single antibody-antigen interactions monitored via transient ionic current recording using nanopore sensors. *Chemical Communications*, **2017**, 53, 8620-8623	5.8	35
211	Wireless Bipolar Nanopore Electrode for Single Small Molecule Detection. *Analytical Chemistry*, **2017**, 89, 7382-7387	7.8	70
210	Plasmon Resonance Energy Transfer: Coupling between Chromophore Molecules and Metallic Nanoparticles. *Small*, **2017**, 13, 1601955	11	22
209	Development of Biological Nanopore Technique in Non-gene Sequencing Application. *Chinese Journal of Analytical Chemistry*, **2017**, 45, 1766-1775	1.6	3
208	Sensitive detection of protein biomarkers using silver nanoparticles enhanced immunofluorescence assay. *Theranostics*, **2017**, 7, 876-883	12.1	39
207	Real-Time Sensing of O-Phenylenediamine Oxidation on Gold Nanoparticles. *Sensors*, **2017**, 17,	3.8	16
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