Rui Gao

List of Publications by Year
in descending order

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41	1,711	304743 22	315739 38
papers	citations	h-index	g-index

44	44	44	1437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoporeâ€Based Sequencing and Detection of Nucleic Acids. Angewandte Chemie - International Edition, 2013, 52, 13154-13161.	13.8	236
2	Asymmetric Nanopore Electrode-Based Amplification for Electron Transfer Imaging in Live Cells. Journal of the American Chemical Society, 2018, 140, 5385-5392.	13.7	209
3	Confined Nanopipette Sensing: From Single Molecules, Single Nanoparticles, to Single Cells. Angewandte Chemie - International Edition, 2019, 58, 3706-3714.	13.8	185
4	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. Journal of the American Chemical Society, 2019, 141, 20187-20197.	13.7	175
5	Wireless Bipolar Nanopore Electrode for Single Small Molecule Detection. Analytical Chemistry, 2017, 89, 7382-7387.	6.5	84
6	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.	13.8	82
7	Single antibodyâ€“antigen interactions monitored via transient ionic current recording using nanopore sensors. Chemical Communications, 2017, 53, 8620-8623.	4.1	52
8	Label-Free Monitoring of Single Molecule Immunoreaction with a Nanopipette. Analytical Chemistry, 2017, 89, 8203-8206.	6.5	51
9	Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms. Small Methods, 2018, 2, 1700390.	8.6	49
10	Manipulating and visualizing the dynamic aggregation-induced emission within a confined quartz nanopore. Nature Communications, 2018, 9, 3657.	12.8	49
11	A Scattering Nanopore for Single Nanoentity Sensing. ACS Sensors, 2016, 1, 1086-1090.	7.8	48
12	Wireless nanopore electrodes for analysis of single entities. Nature Protocols, 2019, 14, 2015-2035.	12.0	48
13	Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore. Chemical Communications, 2017, 53, 3539-3542.	4.1	41
14	Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. Journal of the American Chemical Society, 2020, 142, 8890-8896.	13.7	40
15	Single-entity electrochemistry at confined sensing interfaces. Science China Chemistry, 2020, 63, 589-618.	8.2	38
16	Dynamics of a Molecular Plug Docked onto a Solid-State Nanopore. Journal of Physical Chemistry Letters, 2018, 9, 4686-4694.	4.6	31
17	Dynamic Selfâ€Assembly of Homogenous Microcyclic Structures Controlled by a Silverâ€Coated Nanopore. Small, 2017, 13, 1700234.	10.0	30
18	Characterization of the Dynamic Growth of the Nanobubble within the Confined Glass Nanopore. Analytical Chemistry, 2018, 90, 12352-12355.	6.5	26

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19	Shot noise sets the limit of quantification in electrochemical measurements. Current Opinion in Electrochemistry, 2020, 22, 170-177.	4.8	26
20	Ultrasensitive determination of mercury(II) using glass nanopores functionalized with macrocyclic dioxotetraamines. Mikrochimica Acta, 2016, 183, 491-495.	5.0	24
21	Singleâ€Molecule Sensing with Nanopore Confinement: From Chemical Reactions to Biological Interactions. Chemistry - A European Journal, 2018, 24, 13064-13071.	3.3	23
22	An integrated current measurement system for nanopore analysis. Science Bulletin, 2014, 59, 4968-4973.	1.7	21
23	Detektieren mit Nanopipetten im eingeschrÃnkten Raum: von einzelnen MolekÃ¼len Ã¼ber Nanopartikel hin zu der Zelle. Angewandte Chemie, 2019, 131, 3744-3752.	2.0	21
24	An integrated system for optical and electrical detection of single molecules/particles inside a solid-state nanopore. Faraday Discussions, 2015, 184, 85-99.	3.2	18
25	A Low Noise Amplifier System for Nanopore-based Single Molecule Analysis. Chinese Journal of Analytical Chemistry, 2015, 43, 971-976.	1.7	11
26	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. Angewandte Chemie, 2018, 130, 1023-1027.	2.0	11
27	Electrochemical Generation of Individual Nanobubbles Comprising H₂, D₂, and HD. Langmuir, 2020, 36, 6073-6078.	3.5	11
28	Electrochemical Reduction of [Ni(Mebpy)₃]²⁺: Elucidation of the Redox Mechanism by Cyclic Voltammetry and Steadyâ€State Voltammetry in Low Ionic Strength Solutions. ChemElectroChem, 2020, 7, 1473-1479.	3.4	11
29	Nanopore-based sensing interface for single molecule electrochemistry. Science China Chemistry, 2019, 62, 1576-1587.	8.2	8
30	Analysis of Single-entity Anisotropy with a Solid-state Nanopore. Acta Chimica Sinica, 2017, 75, 675.	1.4	7
31	A Closed-Type Wireless Nanopore Electrode for Analyzing Single Nanoparticles. Journal of Visualized Experiments, 2019, , .	0.3	5
32	Dynamics of nanointerfaces: general discussion. Faraday Discussions, 2018, 210, 451-479.	3.2	4
33	A highly selective ATP-responsive biomimetic nanochannel based on smart copolymer. Analytica Chimica Acta, 2021, 1188, 339167.	5.4	4
34	Electroprecipitation of Nanometer-Thick Films of Ln(OH)₃ [Ln = La, Ce, and Lu] at Pt Microelectrodes and Their Effect on Electron-Transfer Reactions. Langmuir, 2022, 38, 8125-8134.	3.5	4
35	Direct Observation of Single Biopolymer Folding and Unfolding Process by Solid-State Nanopore. Biophysical Journal, 2017, 112, 70a.	0.5	1
36	Dynamics of Single-Enzyme Activity in a Nanopore Confinement. Biophysical Journal, 2018, 114, 688a.	0.5	1

#	Article	IF	Citations
37	Processes at nanoelectrodes: general discussion. Faraday Discussions, 2018, 210, 235-265.	3.2	1
38	Selfâ€Assembly: Dynamic Selfâ€Assembly of Homogenous Microcyclic Structures Controlled by a Silverâ€Coated Nanopore (Small 25/2017). Small, 2017, 13, .	10.0	0
39	Frontispiece: Singleâ€Molecule Sensing with Nanopore Confinement: From Chemical Reactions to Biological Interactions. Chemistry - A European Journal, 2018, 24, .	3.3	0
40	Wireless Nanopore Electrode for Electron Transfer Imaging in Live Cells. Biophysical Journal, 2019, 116, 315a.	0.5	0
41	Direct Observation of Single Biomolecule Hidden Behaviors by an Electro-Optical Nanopore. Biophysical Journal, 2020, 118, 159a.	0.5	0