

Rui Gao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7191314/publications.pdf>

Version: 2024-02-01

41
papers

1,711
citations

304743

22
h-index

315739

38
g-index

44
all docs

44
docs citations

44
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroprecipitation of Nanometer-Thick Films of Ln(OH) ₃ [Ln = La, Ce, and Lu] at Pt Microelectrodes and Their Effect on Electron-Transfer Reactions. <i>Langmuir</i> , 2022, 38, 8125-8134.	3.5	4
2	A highly selective ATP-responsive biomimetic nanochannel based on smart copolymer. <i>Analytica Chimica Acta</i> , 2021, 1188, 339167.	5.4	4
3	Direct Observation of Single Biomolecule Hidden Behaviors by an Electro-Optical Nanopore. <i>Biophysical Journal</i> , 2020, 118, 159a.	0.5	0
4	Electrochemical Generation of Individual Nanobubbles Comprising H ₂ , D ₂ , and HD. <i>Langmuir</i> , 2020, 36, 6073-6078.	3.5	11
5	Shot noise sets the limit of quantification in electrochemical measurements. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 170-177.	4.8	26
6	Electrochemical Reduction of [Ni(Mebpy) ₃] ²⁺ : Elucidation of the Redox Mechanism by Cyclic Voltammetry and Steady-State Voltammetry in Low Ionic Strength Solutions. <i>ChemElectroChem</i> , 2020, 7, 1473-1479.	3.4	11
7	Single-entity electrochemistry at confined sensing interfaces. <i>Science China Chemistry</i> , 2020, 63, 589-618.	8.2	38
8	Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. <i>Journal of the American Chemical Society</i> , 2020, 142, 8890-8896.	13.7	40
9	Detektieren mit Nanopipetten im eingeschränkten Raum: von einzelnen Molekülen über Nanopartikel hin zu der Zelle. <i>Angewandte Chemie</i> , 2019, 131, 3744-3752.	2.0	21
10	Confined Nanopipette Sensing: From Single Molecules, Single Nanoparticles, to Single Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3706-3714.	13.8	185
11	Nanopore-based sensing interface for single molecule electrochemistry. <i>Science China Chemistry</i> , 2019, 62, 1576-1587.	8.2	8
12	Wireless nanopore electrodes for analysis of single entities. <i>Nature Protocols</i> , 2019, 14, 2015-2035.	12.0	48
13	Wireless Nanopore Electrode for Electron Transfer Imaging in Live Cells. <i>Biophysical Journal</i> , 2019, 116, 315a.	0.5	0
14	A Closed-Type Wireless Nanopore Electrode for Analyzing Single Nanoparticles. <i>Journal of Visualized Experiments</i> , 2019, . .	0.3	5
15	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 20187-20197.	13.7	175
16	Single-Molecule Sensing with Nanopore Confinement: From Chemical Reactions to Biological Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, 13064-13071.	3.3	23
17	Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms. <i>Small Methods</i> , 2018, 2, 1700390.	8.6	49
18	Dynamics of Single-Enzyme Activity in a Nanopore Confinement. <i>Biophysical Journal</i> , 2018, 114, 688a.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Asymmetric Nanopore Electrode-Based Amplification for Electron Transfer Imaging in Live Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 5385-5392.	13.7	209
20	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. <i>Angewandte Chemie</i> , 2018, 130, 1023-1027.	2.0	11
21	Processes at nanoelectrodes: general discussion. <i>Faraday Discussions</i> , 2018, 210, 235-265.	3.2	1
22	Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 451-479.	3.2	4
23	Characterization of the Dynamic Growth of the Nanobubble within the Confined Glass Nanopore. <i>Analytical Chemistry</i> , 2018, 90, 12352-12355.	6.5	26
24	Frontispiece: Single-Molecule Sensing with Nanopore Confinement: From Chemical Reactions to Biological Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
25	Manipulating and visualizing the dynamic aggregation-induced emission within a confined quartz nanopore. <i>Nature Communications</i> , 2018, 9, 3657.	12.8	49
26	Dynamics of a Molecular Plug Docked onto a Solid-State Nanopore. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4686-4694.	4.6	31
27	A 30 nm Nanopore Electrode: Facile Fabrication and Direct Insights into the Intrinsic Feature of Single Nanoparticle Collisions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1011-1015.	13.8	82
28	Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore. <i>Chemical Communications</i> , 2017, 53, 3539-3542.	4.1	41
29	Direct Observation of Single Biopolymer Folding and Unfolding Process by Solid-State Nanopore. <i>Biophysical Journal</i> , 2017, 112, 70a.	0.5	1
30	Dynamic Self-Assembly of Homogenous Microcyclic Structures Controlled by a Silver-Coated Nanopore. <i>Small</i> , 2017, 13, 1700234.	10.0	30
31	Self-Assembly: Dynamic Self-Assembly of Homogenous Microcyclic Structures Controlled by a Silver-Coated Nanopore (<i>Small</i> 25/2017). <i>Small</i> , 2017, 13, .	10.0	0
32	Label-Free Monitoring of Single Molecule Immunoreaction with a Nanopipette. <i>Analytical Chemistry</i> , 2017, 89, 8203-8206.	6.5	51
33	Single antibody-antigen interactions monitored via transient ionic current recording using nanopore sensors. <i>Chemical Communications</i> , 2017, 53, 8620-8623.	4.1	52
34	Wireless Bipolar Nanopore Electrode for Single Small Molecule Detection. <i>Analytical Chemistry</i> , 2017, 89, 7382-7387.	6.5	84
35	Analysis of Single-entity Anisotropy with a Solid-state Nanopore. <i>Acta Chimica Sinica</i> , 2017, 75, 675.	1.4	7
36	A Scattering Nanopore for Single Nanoentity Sensing. <i>ACS Sensors</i> , 2016, 1, 1086-1090.	7.8	48

#	ARTICLE	IF	CITATIONS
37	Ultrasensitive determination of mercury(II) using glass nanopores functionalized with macrocyclic dioxotetraamines. <i>Mikrochimica Acta</i> , 2016, 183, 491-495.	5.0	24
38	A Low Noise Amplifier System for Nanopore-based Single Molecule Analysis. <i>Chinese Journal of Analytical Chemistry</i> , 2015, 43, 971-976.	1.7	11
39	An integrated system for optical and electrical detection of single molecules/particles inside a solid-state nanopore. <i>Faraday Discussions</i> , 2015, 184, 85-99.	3.2	18
40	An integrated current measurement system for nanopore analysis. <i>Science Bulletin</i> , 2014, 59, 4968-4973.	1.7	21
41	Nanopore-Based Sequencing and Detection of Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13154-13161.	13.8	236