Kang Wang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/81606/publications.pdf

Version: 2024-02-01

172457 197818 2,580 66 29 49 h-index citations g-index papers 69 69 69 3528 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Bioinspired copper catalyst effective for both reduction and evolution of oxygen. Nature Communications, 2014, 5, 5285.	12.8	202
2	eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. Nature Communications, 2019, 10, 704.	12.8	199
3	Lanthanide-based metal-organic framework nanosheets with unique fluorescence quenching properties for two-color intracellular adenosine imaging in living cells. NPG Asia Materials, 2017, 9, e354-e354.	7.9	144
4	A Nanochannel Array-Based Electrochemical Device for Quantitative Label-free DNA Analysis. ACS Nano, 2010, 4, 6417-6424.	14.6	134
5	Solutionâ€pHâ€Modulated Rectification of Ionic Current in Highly Ordered Nanochannel Arrays Patterned with Chemical Functional Groups at Designed Positions. Advanced Functional Materials, 2013, 23, 3836-3844.	14.9	125
6	Ultrasensitive Detection of Bacteria Using a 2D MOF Nanozyme-Amplified Electrochemical Detector. Analytical Chemistry, 2021, 93, 8544-8552.	6.5	117
7	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. Analytical Chemistry, 2017, 89, 11366-11371.	6.5	81
8	Strategy for In Situ Imaging of Cellular Alkaline Phosphatase Activity Using Gold Nanoflower Probe and Localized Surface Plasmon Resonance Technique. Analytical Chemistry, 2018, 90, 14056-14062.	6.5	70
9	Photochemical synthesis of Prussian blue film from an acidic ferricyanide solution and application. Electrochemistry Communications, 2005, 7, 1252-1256.	4.7	69
10	Insight into Ion Transfer through the Subâ€Nanometer Channels in Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2017, 56, 4767-4771.	13.8	66
11	Organic Cyanide Decorated SERS Active Nanopipettes for Quantitative Detection of Hemeproteins and Fe ³⁺ in Single Cells. Analytical Chemistry, 2017, 89, 2522-2530.	6.5	62
12	Morpholino Monolayers: Preparation and Label-free DNA Analysis by Surface Hybridization. Journal of the American Chemical Society, 2009, 131, 4953-4961.	13.7	61
13	Morphology Controlled Poly(aminophenylboronic acid) Nanostructures as Smart Substrates for Enhanced Capture and Release of Circulating Tumor Cells. Advanced Functional Materials, 2015, 25, 6122-6130.	14.9	59
14	Nanopipette-Based SERS Aptasensor for Subcellular Localization of Cancer Biomarker in Single Cells. Analytical Chemistry, 2017, 89, 9911-9917.	6.5	56
15	Morpholino-Functionalized Nanochannel Array for Label-Free Single Nucleotide Polymorphisms Detection. Analytical Chemistry, 2015, 87, 3936-3941.	6.5	53
16	In Situ Detection and Imaging of Telomerase Activity in Cancer Cell Lines via Disassembly of Plasmonic Core–Satellites Nanostructured Probe. Analytical Chemistry, 2017, 89, 7262-7268.	6.5	52
17	Fluorescent Sulfur-Tagged Europium(III) Coordination Polymers for Monitoring Reactive Oxygen Species. Analytical Chemistry, 2015, 87, 6828-6833.	6.5	47
18	Reversible Plasmonic Probe Sensitive for pH in Micro/Nanospaces Based on i-Motif-Modulated Morpholino-Gold Nanoparticle Assembly. Analytical Chemistry, 2013, 85, 1053-1057.	6.5	43

#	Article	IF	CITATIONS
19	A Multiparameter pHâ€Sensitive Nanodevice Based on Plasmonic Nanopores. Advanced Functional Materials, 2018, 28, 1703847.	14.9	43
20	Size-Controllable Gold Nanopores with High SERS Activity. Analytical Chemistry, 2017, 89, 10407-10413.	6.5	42
21	Propagation of Concentration Polarization Affecting lons Transport in Branching Nanochannel Array. Analytical Chemistry, 2015, 87, 8194-8202.	6.5	41
22	Greatly improved catalytic activity and direct electron transfer rate of cytochrome C due to the confinement effect in a layered self-assembly structure. Chemical Communications, 2012, 48, 2316.	4.1	40
23	Recognition of plastic nanoparticles using a single gold nanopore fabricated at the tip of a glass nanopipette. Chemical Communications, 2019, 55, 6397-6400.	4.1	40
24	A green approach to the synthesis of novel "Desert rose stone―like nanobiocatalytic system with excellent enzyme activity and stability. Scientific Reports, 2014, 4, 6606.	3.3	36
25	pHâ€Dependent Slipping and Exfoliation of Layered Covalent Organic Framework. Chemistry - A European Journal, 2020, 26, 12996-13001.	3.3	35
26	Selective cadmium regulation mediated by a cooperative binding mechanism in CadR. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20398-20403.	7.1	34
27	Ice crystals growth driving assembly of porous nitrogen-doped graphene for catalyzing oxygen reduction probed by in situ fluorescence electrochemistry. Scientific Reports, 2014, 4, 6723.	3.3	33
28	Surface-Enhanced Raman Scattering Probing the Translocation of DNA and Amino Acid through Plasmonic Nanopores. Analytical Chemistry, 2019, 91, 6275-6280.	6.5	33
29	Highly Stable and Luminescent Layered Hybrid Materials for Sensitive Detection of TNT Explosives. Analytical Chemistry, 2015, 87, 4530-4537.	6.5	32
30	Conformational change and biocatalysis-triggered spectral shift of single Au nanoparticles. Chemical Communications, 2014, 50, 5480-5483.	4.1	27
31	A Dual-Electrode Approach for Highly Selective Detection of Glucose Based on Diffusion Layer Theory: Experiments and Simulation. Chemistry - A European Journal, 2005, 11, 1341-1347.	3.3	26
32	Insight into Ion Transfer through the Subâ€Nanometer Channels in Zeolitic Imidazolate Frameworks. Angewandte Chemie, 2017, 129, 4845-4849.	2.0	26
33	Distance-determined sensitivity in attenuated total reflection-surface enhanced infrared absorption spectroscopy: aptamer–antigen compared to antibody–antigen. Chemical Communications, 2014, 50, 7787.	4.1	25
34	Enhanced Optical Spectroscopy for Multiplexed DNA and Protein-Sequencing with Plasmonic Nanopores: Challenges and Prospects. Analytical Chemistry, 2022, 94, 503-514.	6.5	25
35	Gold Nanowires Array-Based Closed Bipolar Nanoelectrode System for Electrochemiluminescence Detection of α-Fetoprotein on Cell Surface. Analytical Chemistry, 2022, 94, 7350-7357.	6.5	25
36	Molecular Mechanisms in Morpholinoâ^'DNA Surface Hybridization. Journal of the American Chemical Society, 2010, 132, 9663-9671.	13.7	24

#	Article	IF	CITATIONS
37	SERS Detection of Nucleobases in Single Silver Plasmonic Nanopores. ACS Sensors, 2020, 5, 2198-2204.	7.8	24
38	Single Molecule DNA Analysis Based on Atomic-Controllable Nanopores in Covalent Organic Frameworks. Nano Letters, 2022, 22, 1358-1365.	9.1	23
39	Sensitive label-free monitoring of protein kinase activity and inhibition using ferric ions coordinated to phosphorylated sites as electrocatalysts. Chemical Communications, 2013, 49, 8788.	4.1	22
40	Structure orientation of hemin self-assembly layer determining the direct electron transfer reaction. Chemical Communications, 2015, 51, 689-692.	4.1	22
41	Fabrication of High-Density and Superuniform Gold Nanoelectrode Arrays for Electrochemical Fluorescence Imaging. Analytical Chemistry, 2020, 92, 13493-13499.	6.5	22
42	Electric field driven protonation/deprotonation of 3,4,9,10-perylene tetracarboxylic acid immobilized on graphene sheets via π–Ĩ€ stacking. Journal of Electroanalytical Chemistry, 2013, 688, 304-307.	3.8	20
43	Attenuated Total Reflection Surface-Enhanced Infrared Absorption Spectroscopy: a Powerful Technique for Bioanalysis. Journal of Analysis and Testing, 2017, 1, 1.	5.1	18
44	d–sp Interband Transition Excited Carriers Promoting the Photochemical Growth of Plasmonic Gold Nanoparticles. Journal of Physical Chemistry Letters, 2020, 11, 8322-8328.	4.6	18
45	Probing Multidimensional Structural Information of Single Molecules Transporting through a Sub-10 nm Conical Plasmonic Nanopore by SERS. Analytical Chemistry, 2021, 93, 11679-11685.	6.5	15
46	Exploring the Confinement Effect of Carbon Nanotubes on the Electrochemical Properties of Prussian Blue Nanoparticles. Langmuir, 2018, 34, 6983-6990.	3.5	14
47	Labelâ€Free Electrochemiluminescence Imaging of Singleâ€Cell Adhesions by Using Bipolar Nanoelectrode Array. Chemistry - A European Journal, 2022, 28, e202103964.	3.3	14
48	Microchannel-electrode alignment and separation parameters comparison in microchip capillary electrophoresis by scanning electrochemical microscopy. Journal of Chromatography A, 2006, 1110, 222-226.	3.7	12
49	High Spatial Resolution of Ultrathin Covalent Organic Framework Nanopores for Single-Molecule DNA Sensing. Analytical Chemistry, 2022, 94, 9851-9855.	6.5	12
50	Novel Coupling Mechanism-Based Imaging Approach to Scanning Electrochemical Microscopy for Probing the Electric Field Distribution at the Microchannel End. Langmuir, 2006, 22, 7052-7058.	3.5	11
51	Donnan Potential Caused by Polyelectrolyte Monolayers. Langmuir, 2014, 30, 10127-10132.	3.5	11
52	Mass Transfer Modulation and Gas Mapping Based on Covalent Organic Frameworks-Covered Theta Micropipette. Analytical Chemistry, 2020, 92, 7343-7348.	6.5	11
53	An <i>in situ</i> SERS study of ionic transport and the Joule heating effect in plasmonic nanopores. Chemical Communications, 2018, 54, 13236-13239.	4.1	10
54	Structural Change of a Single Ag Nanoparticle Observed by Darkâ€field Microspectroscopy. ChemPhysChem, 2018, 19, 954-958.	2.1	8

#	Article	IF	CITATIONS
55	Three-Dimensional Metamaterial for Plasmon-Enhanced Raman Scattering at any Excitation Wavelengths from the Visible to Near-Infrared Range. Analytical Chemistry, 2021, 93, 1409-1415.	6.5	8
56	Free-Standing Single Ag Nanowires for Multifunctional Optical Probes. ACS Applied Materials & Amp; Interfaces, 2021, 13, 19023-19030.	8.0	8
57	Electricâ€Field Distribution at the End of a Charged Capillaryâ€"A Coupling Imaging Study. ChemPhysChem, 2008, 9, 2109-2115.	2.1	7
58	End Group Properties of Thiols Affecting the Self-Assembly Mechanism at Gold Nanoparticles Film As Evidenced by Water Infrared Probe. Analytical Chemistry, 2019, 91, 14508-14513.	6.5	7
59	A single nanoparticle-based real-time monitoring of biocatalytic progress and detection of hydrogen peroxide. Talanta, 2018, 185, 581-585.	5 . 5	6
60	Specific cell capture and noninvasive release via moderate electrochemical oxidation of boronic ester linkage. Biosensors and Bioelectronics, 2019, 138, 111316.	10.1	6
61	Mass transport through a sub-10Ânm single gold nanopore: SERS and ionic current measurement. Journal of Electroanalytical Chemistry, 2021, 894, 115373.	3.8	6
62	The Enhanced Enzymolysis Resistance of Surfaceâ€lmmobilized DNA Caused by Hybridizing with Morpholino. Electroanalysis, 2013, 25, 1074-1079.	2.9	5
63	Nanopore-based surface-enhanced Raman scattering technologies. Science Bulletin, 2022, 67, 1539-1541.	9.0	5
64	An Electrochemical Study of the Surface Hybridization Process of Morpholinoâ€DNA: Thermodynamics and Kinetics. Electroanalysis, 2016, 28, 1647-1653.	2.9	2
65	Gas molecule modulated ionic migration through graphene oxide laminates. Journal of Electroanalytical Chemistry, 2019, 840, 182-186.	3.8	2
66	Construction of metal-organic frameworks-nucleic acids composites and their application in fluorescent biomedical sensing. Scientia Sinica Chimica, 2022, , .	0.4	0