

Kang Wang

List of Publications by Year in descending order

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66
papers

2,580
citations

196777

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docs citations

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times ranked

4012
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Electrochemiluminescence Imaging of Single-Cell Adhesions by Using Bipolar Nanoelectrode Array. <i>Chemistry - A European Journal</i> , 2022, 28, e202103964.	1.7	14
2	Enhanced Optical Spectroscopy for Multiplexed DNA and Protein-Sequencing with Plasmonic Nanopores: Challenges and Prospects. <i>Analytical Chemistry</i> , 2022, 94, 503-514.	3.2	25
3	Single Molecule DNA Analysis Based on Atomic-Controllable Nanopores in Covalent Organic Frameworks. <i>Nano Letters</i> , 2022, 22, 1358-1365.	4.5	23
4	Gold Nanowires Array-Based Closed Bipolar Nanoelectrode System for Electrochemiluminescence Detection of β -Fetoprotein on Cell Surface. <i>Analytical Chemistry</i> , 2022, 94, 7350-7357.	3.2	25
5	Construction of metal-organic frameworks-nucleic acids composites and their application in fluorescent biomedical sensing. <i>Scientia Sinica Chimica</i> , 2022, , .	0.2	0
6	Nanopore-based surface-enhanced Raman scattering technologies. <i>Science Bulletin</i> , 2022, 67, 1539-1541.	4.3	5
7	High Spatial Resolution of Ultrathin Covalent Organic Framework Nanopores for Single-Molecule DNA Sensing. <i>Analytical Chemistry</i> , 2022, 94, 9851-9855.	3.2	12
8	Three-Dimensional Metamaterial for Plasmon-Enhanced Raman Scattering at any Excitation Wavelengths from the Visible to Near-Infrared Range. <i>Analytical Chemistry</i> , 2021, 93, 1409-1415.	3.2	8
9	Free-Standing Single Ag Nanowires for Multifunctional Optical Probes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19023-19030.	4.0	8
10	Ultrasensitive Detection of Bacteria Using a 2D MOF Nanozyme-Amplified Electrochemical Detector. <i>Analytical Chemistry</i> , 2021, 93, 8544-8552.	3.2	117
11	Mass transport through a sub-10Ånm single gold nanopore: SERS and ionic current measurement. <i>Journal of Electroanalytical Chemistry</i> , 2021, 894, 115373.	1.9	6
12	Probing Multidimensional Structural Information of Single Molecules Transporting through a Sub-10 nm Conical Plasmonic Nanopore by SERS. <i>Analytical Chemistry</i> , 2021, 93, 11679-11685.	3.2	15
13	Fabrication of High-Density and Superuniform Gold Nanoelectrode Arrays for Electrochemical Fluorescence Imaging. <i>Analytical Chemistry</i> , 2020, 92, 13493-13499.	3.2	22
14	$d\sigma^*_{sp}$ Interband Transition Excited Carriers Promoting the Photochemical Growth of Plasmonic Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8322-8328.	2.1	18
15	SERS Detection of Nucleobases in Single Silver Plasmonic Nanopores. <i>ACS Sensors</i> , 2020, 5, 2198-2204.	4.0	24
16	pH-Dependent Slipping and Exfoliation of Layered Covalent Organic Framework. <i>Chemistry - A European Journal</i> , 2020, 26, 12996-13001.	1.7	35
17	Mass Transfer Modulation and Gas Mapping Based on Covalent Organic Frameworks-Covered Theta Micropipette. <i>Analytical Chemistry</i> , 2020, 92, 7343-7348.	3.2	11
18	End Group Properties of Thiols Affecting the Self-Assembly Mechanism at Gold Nanoparticles Film As Evidenced by Water Infrared Probe. <i>Analytical Chemistry</i> , 2019, 91, 14508-14513.	3.2	7

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19	Recognition of plastic nanoparticles using a single gold nanopore fabricated at the tip of a glass nanopipette. <i>Chemical Communications</i> , 2019, 55, 6397-6400.	2.2	40
20	Specific cell capture and noninvasive release via moderate electrochemical oxidation of boronic ester linkage. <i>Biosensors and Bioelectronics</i> , 2019, 138, 111316.	5.3	6
21	Surface-Enhanced Raman Scattering Probing the Translocation of DNA and Amino Acid through Plasmonic Nanopores. <i>Analytical Chemistry</i> , 2019, 91, 6275-6280.	3.2	33
22	Gas molecule modulated ionic migration through graphene oxide laminates. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 182-186.	1.9	2
23	eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , 2019, 10, 704.	5.8	199
24	Selective cadmium regulation mediated by a cooperative binding mechanism in CadR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20398-20403.	3.3	34
25	Structural Change of a Single Ag Nanoparticle Observed by Dark-field Microspectroscopy. <i>ChemPhysChem</i> , 2018, 19, 954-958.	1.0	8
26	A single nanoparticle-based real-time monitoring of biocatalytic progress and detection of hydrogen peroxide. <i>Talanta</i> , 2018, 185, 581-585.	2.9	6
27	A Multiparameter pH-sensitive Nanodevice Based on Plasmonic Nanopores. <i>Advanced Functional Materials</i> , 2018, 28, 1703847.	7.8	43
28	Strategy for In Situ Imaging of Cellular Alkaline Phosphatase Activity Using Gold Nanoflower Probe and Localized Surface Plasmon Resonance Technique. <i>Analytical Chemistry</i> , 2018, 90, 14056-14062.	3.2	70
29	An <i>in situ</i> SERS study of ionic transport and the Joule heating effect in plasmonic nanopores. <i>Chemical Communications</i> , 2018, 54, 13236-13239.	2.2	10
30	Exploring the Confinement Effect of Carbon Nanotubes on the Electrochemical Properties of Prussian Blue Nanoparticles. <i>Langmuir</i> , 2018, 34, 6983-6990.	1.6	14
31	Organic Cyanide Decorated SERS Active Nanopipettes for Quantitative Detection of Hemeproteins and Fe ³⁺ in Single Cells. <i>Analytical Chemistry</i> , 2017, 89, 2522-2530.	3.2	62
32	Attenuated Total Reflection Surface-Enhanced Infrared Absorption Spectroscopy: a Powerful Technique for Bioanalysis. <i>Journal of Analysis and Testing</i> , 2017, 1, 1.	2.5	18
33	In Situ Detection and Imaging of Telomerase Activity in Cancer Cell Lines via Disassembly of Plasmonic Core-Satellites Nanostructured Probe. <i>Analytical Chemistry</i> , 2017, 89, 7262-7268.	3.2	52
34	Insight into Ion Transfer through the Sub-Nanometer Channels in Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie</i> , 2017, 129, 4845-4849.	1.6	26
35	Insight into Ion Transfer through the Sub-Nanometer Channels in Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4767-4771.	7.2	66
36	Lanthanide-based metal-organic framework nanosheets with unique fluorescence quenching properties for two-color intracellular adenosine imaging in living cells. <i>NPG Asia Materials</i> , 2017, 9, e354-e354.	3.8	144

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37	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. <i>Analytical Chemistry</i> , 2017, 89, 11366-11371.	3.2	81
38	Nanopipette-Based SERS Aptasensor for Subcellular Localization of Cancer Biomarker in Single Cells. <i>Analytical Chemistry</i> , 2017, 89, 9911-9917.	3.2	56
39	Size-Controllable Gold Nanopores with High SERS Activity. <i>Analytical Chemistry</i> , 2017, 89, 10407-10413.	3.2	42
40	An Electrochemical Study of the Surface Hybridization Process of Morpholino-DNA: Thermodynamics and Kinetics. <i>Electroanalysis</i> , 2016, 28, 1647-1653.	1.5	2
41	Morphology Controlled Poly(aminophenylboronic acid) Nanostructures as Smart Substrates for Enhanced Capture and Release of Circulating Tumor Cells. <i>Advanced Functional Materials</i> , 2015, 25, 6122-6130.	7.8	59
42	Morpholino-Functionalized Nanochannel Array for Label-Free Single Nucleotide Polymorphisms Detection. <i>Analytical Chemistry</i> , 2015, 87, 3936-3941.	3.2	53
43	Fluorescent Sulfur-Tagged Europium(III) Coordination Polymers for Monitoring Reactive Oxygen Species. <i>Analytical Chemistry</i> , 2015, 87, 6828-6833.	3.2	47
44	Propagation of Concentration Polarization Affecting Ions Transport in Branching Nanochannel Array. <i>Analytical Chemistry</i> , 2015, 87, 8194-8202.	3.2	41
45	Highly Stable and Luminescent Layered Hybrid Materials for Sensitive Detection of TNT Explosives. <i>Analytical Chemistry</i> , 2015, 87, 4530-4537.	3.2	32
46	Structure orientation of hemin self-assembly layer determining the direct electron transfer reaction. <i>Chemical Communications</i> , 2015, 51, 689-692.	2.2	22
47	Distance-determined sensitivity in attenuated total reflection-surface enhanced infrared absorption spectroscopy: aptamer-antigen compared to antibody-antigen. <i>Chemical Communications</i> , 2014, 50, 7787.	2.2	25
48	Conformational change and biocatalysis-triggered spectral shift of single Au nanoparticles. <i>Chemical Communications</i> , 2014, 50, 5480-5483.	2.2	27
49	Bioinspired copper catalyst effective for both reduction and evolution of oxygen. <i>Nature Communications</i> , 2014, 5, 5285.	5.8	202
50	Donnan Potential Caused by Polyelectrolyte Monolayers. <i>Langmuir</i> , 2014, 30, 10127-10132.	1.6	11
51	Ice crystals growth driving assembly of porous nitrogen-doped graphene for catalyzing oxygen reduction probed by in situ fluorescence electrochemistry. <i>Scientific Reports</i> , 2014, 4, 6723.	1.6	33
52	A green approach to the synthesis of novel "Desert rose stone"-like nanobiocatalytic system with excellent enzyme activity and stability. <i>Scientific Reports</i> , 2014, 4, 6606.	1.6	36
53	Sensitive label-free monitoring of protein kinase activity and inhibition using ferric ions coordinated to phosphorylated sites as electrocatalysts. <i>Chemical Communications</i> , 2013, 49, 8788.	2.2	22
54	The Enhanced Enzymolysis Resistance of Surface-Immobilized DNA Caused by Hybridizing with Morpholino. <i>Electroanalysis</i> , 2013, 25, 1074-1079.	1.5	5

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55	Reversible Plasmonic Probe Sensitive for pH in Micro/Nanospaces Based on i-Motif-Modulated Morpholino-Gold Nanoparticle Assembly. <i>Analytical Chemistry</i> , 2013, 85, 1053-1057.	3.2	43
56	Electric field driven protonation/deprotonation of 3,4,9,10-perylene tetracarboxylic acid immobilized on graphene sheets via π - π stacking. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 304-307.	1.9	20
57	Solution-pH-Modulated Rectification of Ionic Current in Highly Ordered Nanochannel Arrays Patterned with Chemical Functional Groups at Designed Positions. <i>Advanced Functional Materials</i> , 2013, 23, 3836-3844.	7.8	125
58	Greatly improved catalytic activity and direct electron transfer rate of cytochrome C due to the confinement effect in a layered self-assembly structure. <i>Chemical Communications</i> , 2012, 48, 2316.	2.2	40
59	A Nanochannel Array-Based Electrochemical Device for Quantitative Label-free DNA Analysis. <i>ACS Nano</i> , 2010, 4, 6417-6424.	7.3	134
60	Molecular Mechanisms in Morpholino-DNA Surface Hybridization. <i>Journal of the American Chemical Society</i> , 2010, 132, 9663-9671.	6.6	24
61	Morpholino Monolayers: Preparation and Label-free DNA Analysis by Surface Hybridization. <i>Journal of the American Chemical Society</i> , 2009, 131, 4953-4961.	6.6	61
62	Electric Field Distribution at the End of a Charged Capillary—A Coupling Imaging Study. <i>ChemPhysChem</i> , 2008, 9, 2109-2115.	1.0	7
63	Novel Coupling Mechanism-Based Imaging Approach to Scanning Electrochemical Microscopy for Probing the Electric Field Distribution at the Microchannel End. <i>Langmuir</i> , 2006, 22, 7052-7058.	1.6	11
64	Microchannel-electrode alignment and separation parameters comparison in microchip capillary electrophoresis by scanning electrochemical microscopy. <i>Journal of Chromatography A</i> , 2006, 1110, 222-226.	1.8	12
65	Photochemical synthesis of Prussian blue film from an acidic ferricyanide solution and application. <i>Electrochemistry Communications</i> , 2005, 7, 1252-1256.	2.3	69
66	A Dual-Electrode Approach for Highly Selective Detection of Glucose Based on Diffusion Layer Theory: Experiments and Simulation. <i>Chemistry - A European Journal</i> , 2005, 11, 1341-1347.	1.7	26