

Wei Wang

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.

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|-------------------|-------------------------|---------------|----------------|
| 88 papers | 3,019 citations | 28 h-index | 53 g-index |
| 96 ext. papers | 3,508 ext. citations | 10 avg, IF | 5.7 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 88 | Visualizing electron transfer at semiconductor/metal interface by surface plasmon resonance imaging. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 904, 115918 | 4.1 | 0 |
| 87 | Emerging Optical Microscopy Techniques for Electrochemistry.. <i>Annual Review of Analytical Chemistry</i> , 2022 , | 12.5 | 3 |
| 86 | Determining the depth of surface charging layer of single Prussian blue nanoparticles with pseudocapacitive behaviors.. <i>Nature Communications</i> , 2022 , 13, 2316 | 17.4 | 2 |
| 85 | Bacterial bioluminescence assay for bioanalysis and bioimaging. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1 | 4.4 | 0 |
| 84 | Single-molecule calorimeter and free energy landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 6 |
| 83 | A Bubble-STORM Approach for Super-Resolved Imaging of Nucleation Sites in Hydrogen Evolution Reactions. <i>ACS Sensors</i> , 2021 , 6, 380-386 | 9.2 | 4 |
| 82 | Imaging the oxygen wave with a single bioluminescent bacterium. <i>Chemical Science</i> , 2021 , 12, 12400-12406 | 9.1 | 1 |
| 81 | Tracking the optical mass centroid of single electroactive nanoparticles reveals the electrochemically inactive zone. <i>Chemical Science</i> , 2021 , 12, 8556-8562 | 9.4 | 5 |
| 80 | Vertical Diffusion of Ions within Single Particles during Electrochemical Charging. <i>ACS Nano</i> , 2021 , 15, 3522-3528 | 16.7 | 5 |
| 79 | A microwell array-based approach for studying single nanoparticle catalysis with high turnover frequency. <i>Journal of Chemical Physics</i> , 2021 , 155, 071101 | 3.9 | 0 |
| 78 | Dynamically Monitoring the Photodeposition of Single Cocatalyst Nanoparticles on Semiconductors via Fluorescence Imaging. <i>Analytical Chemistry</i> , 2021 , 93, 11915-11919 | 7.8 | 2 |
| 77 | Accessing the spatiotemporal heterogeneities of single nanocatalysts by optically imaging gas nanobubbles. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 55, 101465 | 7.6 | 2 |
| 76 | Evanescent Wave-Guided Growth of an Organic Supramolecular Nanowire Array. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19209-19214 | 16.4 | 1 |
| 75 | Evanescent Wave-Guided Growth of an Organic Supramolecular Nanowire Array. <i>Angewandte Chemie</i> , 2020 , 132, 19371-19376 | 3.6 | 0 |
| 74 | Accessing the Electrochemical Activity of Single Nanoparticles by Eliminating the Heterogeneous Electrical Contacts. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14307-14313 | 16.4 | 19 |
| 73 | Imaging the Thermal Hysteresis of Single Spin-Crossover Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15852-15859 | 16.4 | 9 |
| 72 | Single-entity electrochemistry at confined sensing interfaces. <i>Science China Chemistry</i> , 2020 , 63, 589-618 | 7.9 | 27 |

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| 71 | Determining the Subnanometer Thickness of the Water-Depletion Layer at the Interface between Water and the Hydrophobic Substrate. <i>Analytical Chemistry</i> , 2019 , 91, 11696-11702 | 7.8 | 1 |
| 70 | Influence of Fixation and Permeabilization on the Mass Density of Single Cells: A Surface Plasmon Resonance Imaging Study. <i>Frontiers in Chemistry</i> , 2019 , 7, 588 | 5 | 18 |
| 69 | Measuring the activation energy barrier for the nucleation of single nanosized vapor bubbles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12678-12683 | 11.5 | 25 |
| 68 | Rational design of functional materials guided by single particle chemiluminescence imaging. <i>Chemical Science</i> , 2019 , 10, 5444-5451 | 9.4 | 11 |
| 67 | Tracking Sub-Nanometer Shift in the Scattering Centroid of Single Gold Nanorods during Electrochemical Charging. <i>ACS Nano</i> , 2019 , 13, 6279-6286 | 16.7 | 16 |
| 66 | Label-Free Optical Imaging of the Dynamic Stick-Slip and Migration of Single Sub-100-nm Surface Nanobubbles: A Superlocalization Approach. <i>Analytical Chemistry</i> , 2019 , 91, 4665-4671 | 7.8 | 23 |
| 65 | Tracking the rotation of single CdS nanorods during photocatalysis with surface plasmon resonance microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6630-6634 | 11.5 | 12 |
| 64 | Sensitively fluorescent detection of H ₂ with resazurin hydrogenation reactions catalyzed by Pd/C nanocomposites. <i>Inorganic Chemistry Communication</i> , 2019 , 106, 139-143 | 3.1 | 2 |
| 63 | Photoassisted Electrochemical Micropatterning of Gold Film. <i>Analytical Chemistry</i> , 2019 , 91, 9413-9418 | 7.8 | 2 |
| 62 | Postrecording Pixel-Reconstruction Approach for Correcting the Lateral Drifts in Surface Plasmon Resonance Microscope. <i>Analytical Chemistry</i> , 2019 , 91, 13620-13626 | 7.8 | 2 |
| 61 | Total Internal Reflection-Based Extinction Spectroscopy of Single Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 572-576 | 16.4 | 18 |
| 60 | Total Internal Reflection-Based Extinction Spectroscopy of Single Nanoparticles. <i>Angewandte Chemie</i> , 2019 , 131, 582-586 | 3.6 | 4 |
| 59 | Staining a porous catalyst. <i>Nature Chemistry</i> , 2019 , 11, 17-18 | 17.6 | 1 |
| 58 | imaging of self-catalyzed formaldehyde burst in methanol oxidation reactions under open circuit conditions. <i>Chemical Science</i> , 2018 , 9, 3318-3323 | 9.4 | 4 |
| 57 | Surface plasmon resonance sensing: from purified biomolecules to intact cells. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 3943-3951 | 4.4 | 19 |
| 56 | Monitoring the dynamic photocatalytic activity of single CdS nanoparticles by lighting up H nanobubbles with fluorescent dyes. <i>Chemical Science</i> , 2018 , 9, 1448-1453 | 9.4 | 44 |
| 55 | Electrochemical impedance spectroscopy of single Au nanorods. <i>Chemical Science</i> , 2018 , 9, 4424-4429 | 9.4 | 12 |
| 54 | Imaging the chemical activity of single nanoparticles with optical microscopy. <i>Chemical Society Reviews</i> , 2018 , 47, 2485-2508 | 58.5 | 121 |

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| 53 | Cellular analysis and detection using surface plasmon resonance imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 103, 102-109 | 14.6 | 15 |
| 52 | Innenrücktitelbild: Total Internal Reflection-Based Extinction Spectroscopy of Single Nanoparticles (Angew. Chem. 2/2019). <i>Angewandte Chemie</i> , 2018 , 131, 647 | 3.6 | |
| 51 | Visualizing the Zero-Potential Line of Bipolar Electrodes with Arbitrary Geometry. <i>Analytical Chemistry</i> , 2018 , 90, 6390-6396 | 7.8 | 12 |
| 50 | Point Spread Function of Objective-Based Surface Plasmon Resonance Microscopy. <i>Analytical Chemistry</i> , 2018 , 90, 9650-9656 | 7.8 | 28 |
| 49 | Dynamic Nanoparticle-Substrate Contacts Regulate Multi-Peak Behavior of Single Silver Nanoparticle Collisions. <i>ChemElectroChem</i> , 2018 , 5, 2995-2999 | 4.3 | 14 |
| 48 | Plasmonic Imaging of the Interfacial Potential Distribution on Bipolar Electrodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1629-1633 | 16.4 | 26 |
| 47 | Plasmonic Imaging of the Interfacial Potential Distribution on Bipolar Electrodes. <i>Angewandte Chemie</i> , 2017 , 129, 1651-1655 | 3.6 | 5 |
| 46 | Simultaneous optical and electrochemical recording of single nanoparticle electrochemistry. <i>Nano Research</i> , 2017 , 10, 1740-1748 | 10 | 19 |
| 45 | Nanofabrication of the gold scanning probe for the STM-SECM coupling system with nanoscale spatial resolution. <i>Science China Chemistry</i> , 2017 , 60, 649-655 | 7.9 | 15 |
| 44 | Plasmonic-Based Electrochemical Impedance Imaging of Electrical Activities in Single Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8855-8859 | 16.4 | 46 |
| 43 | Collision and Oxidation of Single LiCoO Nanoparticles Studied by Correlated Optical Imaging and Electrochemical Recording. <i>Analytical Chemistry</i> , 2017 , 89, 6050-6055 | 7.8 | 25 |
| 42 | Visualizing the bidirectional electron transfer in a Schottky junction consisting of single CdS nanoparticles and a planar gold film. <i>Chemical Science</i> , 2017 , 8, 5019-5023 | 9.4 | 10 |
| 41 | Plasmonic Imaging of Electrochemical Impedance. <i>Annual Review of Analytical Chemistry</i> , 2017 , 10, 183-200 | 10.5 | 26 |
| 40 | Optical Imaging of Phase Transition and Li-Ion Diffusion Kinetics of Single LiCoO(2) Nanoparticles During Electrochemical Cycling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 186-192 | 16.4 | 86 |
| 39 | Thin-Film Electrochemistry of Single Prussian Blue Nanoparticles Revealed by Surface Plasmon Resonance Microscopy. <i>Analytical Chemistry</i> , 2017 , 89, 11641-11647 | 7.8 | 19 |
| 38 | Firefly-mimicking intensive and long-lasting chemiluminescence hydrogels. <i>Nature Communications</i> , 2017 , 8, 1003 | 17.4 | 62 |
| 37 | Intermittent photocatalytic activity of single CdS nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10566-10571 | 11.5 | 54 |
| 36 | Studying the electrochemistry of single nanoparticles with surface plasmon resonance microscopy. <i>Current Opinion in Electrochemistry</i> , 2017 , 6, 17-22 | 7.2 | 19 |

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|----|---|------|-----|
| 35 | Label-Free Imaging of Histamine Mediated G Protein-Coupled Receptors Activation in Live Cells. <i>Analytical Chemistry</i> , 2016 , 88, 11498-11503 | 7.8 | 6 |
| 34 | Measuring the number concentration of arbitrarily-shaped gold nanoparticles with surface plasmon resonance microscopy. <i>Science China Chemistry</i> , 2016 , 59, 843-847 | 7.9 | 5 |
| 33 | Determining the Absolute Concentration of Nanoparticles without Calibration Factor by Visualizing the Dynamic Processes of Interfacial Adsorption. <i>Analytical Chemistry</i> , 2016 , 88, 2380-5 | 7.8 | 20 |
| 32 | Digitizing Gold Nanoparticle-Based Colorimetric Assay by Imaging and Counting Single Nanoparticles. <i>Analytical Chemistry</i> , 2016 , 88, 2321-6 | 7.8 | 23 |
| 31 | Simultaneous Transfer and Imaging of Latent Fingerprints Enabled by Interfacial Separation of Polydopamine Thin Film. <i>Analytical Chemistry</i> , 2016 , 88, 10357-10361 | 7.8 | 16 |
| 30 | Plasmonic Imaging of Electrochemical Reactions of Single Nanoparticles. <i>Accounts of Chemical Research</i> , 2016 , 49, 2614-2624 | 24.3 | 80 |
| 29 | Real-time monitoring of phosphorylation kinetics with self-assembled nano-oscillators. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2538-42 | 16.4 | 32 |
| 28 | Label-Free Tracking of Single Organelle Transportation in Cells with Nanometer Precision Using a Plasmonic Imaging Technique. <i>Small</i> , 2015 , 11, 2878-84 | 11 | 66 |
| 27 | Quantification of epidermal growth factor receptor expression level and binding kinetics on cell surfaces by surface plasmon resonance imaging. <i>Analytical Chemistry</i> , 2015 , 87, 9960-5 | 7.8 | 104 |
| 26 | How does fluorescent labeling affect the binding kinetics of proteins with intact cells?. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 412-6 | 11.8 | 37 |
| 25 | Plasmonic imaging of protein interactions with single bacterial cells. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 131-137 | 11.8 | 42 |
| 24 | Measuring Binding Kinetics of Antibody-Conjugated Gold Nanoparticles with Intact Cells. <i>Small</i> , 2015 , 11, 3782-8 | 11 | 24 |
| 23 | Real-Time Monitoring of Phosphorylation Kinetics with Self-Assembled Nano-oscillators. <i>Angewandte Chemie</i> , 2015 , 127, 2568-2572 | 3.6 | 4 |
| 22 | In situ drug-receptor binding kinetics in single cells: a quantitative label-free study of anti-tumor drug resistance. <i>Scientific Reports</i> , 2014 , 4, 6609 | 4.9 | 33 |
| 21 | Detection, counting, and imaging of single nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 2-14 | 7.8 | 117 |
| 20 | Plasmonic imaging of electrochemical oxidation of single nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12584-7 | 16.4 | 115 |
| 19 | Measurement of small molecule binding kinetics on a protein microarray by plasmonic-based electrochemical impedance imaging. <i>Analytical Chemistry</i> , 2014 , 86, 9860-5 | 7.8 | 32 |
| 18 | Charge-based detection of small molecules by plasmonic-based electrochemical impedance microscopy. <i>Analytical Chemistry</i> , 2013 , 85, 6682-7 | 7.8 | 25 |

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| 17 | Plasmonic-based electrochemical impedance spectroscopy: application to molecular binding. <i>Analytical Chemistry</i> , 2012 , 84, 327-33 | 7.8 | 60 |
| 16 | Mapping single-cell-substrate interactions by surface plasmon resonance microscopy. <i>Langmuir</i> , 2012 , 28, 13373-9 | 4 | 70 |
| 15 | Label-free measuring and mapping of binding kinetics of membrane proteins in single living cells. <i>Nature Chemistry</i> , 2012 , 4, 846-53 | 17.6 | 154 |
| 14 | Imaging the electrocatalytic activity of single nanoparticles. <i>Nature Nanotechnology</i> , 2012 , 7, 668-72 | 28.7 | 228 |
| 13 | Single cells and intracellular processes studied by a plasmonic-based electrochemical impedance microscopy. <i>Nature Chemistry</i> , 2011 , 3, 249-55 | 17.6 | 147 |
| 12 | Plasmonic-based imaging of local square wave voltammetry. <i>Analytical Chemistry</i> , 2011 , 83, 7394-9 | 7.8 | 23 |
| 11 | pH-dependent catalytic properties of Pd-Ag nanoparticles in luminol chemiluminescence. <i>Chemical Communications</i> , 2010 , 46, 1520-2 | 5.8 | 17 |
| 10 | A novel electrochemiluminescence strategy for ultrasensitive DNA assay using luminol functionalized gold nanoparticles multi-labeling and amplification of gold nanoparticles and biotin-streptavidin system. <i>Chemical Communications</i> , 2010 , 46, 7560-2 | 5.8 | 89 |
| 9 | Chitosan-Luminol Reduced Gold Nanoflowers: From One-Pot Synthesis to Morphology-Dependent SPR and Chemiluminescence Sensing. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10759-10766 | 3.8 | 76 |
| 8 | Fluorescence and electrochemiluminescence of luminol-reduced gold nanoparticles: photostability and platform effect. <i>Langmuir</i> , 2008 , 24, 2826-33 | 4 | 49 |
| 7 | Growth Mechanism of Flowerlike Gold Nanostructures: Surface Plasmon Resonance (SPR) and Resonance Rayleigh Scattering (RRS) Approaches to Growth Monitoring. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16348-16353 | 3.8 | 36 |
| 6 | A general E-E/C mechanism for the counter-peak in luminol electrochemiluminescence. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 612, 277-287 | 4.1 | 13 |
| 5 | Ag nanoparticle-catalyzed chemiluminescent reaction between luminol and hydrogen peroxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 193, 89-96 | 4.7 | 184 |
| 4 | Electrochemiluminescence of lucigenin/tributylamine system in ethanol solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 197, 55-61 | 4.7 | 4 |
| 3 | Synthesis, characterization, and electrochemiluminescence of luminol-reduced gold nanoparticles and their application in a hydrogen peroxide sensor. <i>Chemistry - A European Journal</i> , 2007 , 13, 6975-84 | 4.8 | 173 |
| 2 | Electrogenerated Chemiluminescence of Lucigenin in Ethanol Solution at a Polycrystalline Gold Electrode. <i>Electroanalysis</i> , 2007 , 19, 1703-1710 | 3 | 6 |
| 1 | Spatiotemporally Controlled Access to Photoluminescence Dark State of 2D Monolayer Semiconductor by FRAP Microscopy. <i>Advanced Functional Materials</i> , 2017 , 27, 170551 | 15.6 | 1 |