

Yi-Tao Long

List of Publications by Citations

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378
papers

14,460
citations

65
h-index

101
g-index

415
ext. papers

16,243
ext. citations

7.5
avg, IF

7.09
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 378 | A graphene-based fluorescent nanoprobe for silver(I) ions detection by using graphene oxide and a silver-specific oligonucleotide. <i>Chemical Communications</i> , 2010 , 46, 2596-8 | 5.8 | 432 |
| 377 | Recent developments and applications of screen-printed electrodes in environmental assays--a review. <i>Analytica Chimica Acta</i> , 2012 , 734, 31-44 | 6.6 | 351 |
| 376 | Efficient and stable dye-sensitized solar cells based on phenothiazine sensitizers with thiophene units. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1772 | | 281 |
| 375 | Quantized plasmon quenching dips nanospectroscopy via plasmon resonance energy transfer. <i>Nature Methods</i> , 2007 , 4, 1015-7 | 21.6 | 270 |
| 374 | Catalytic gold nanoparticles for nanoplasmonic detection of DNA hybridization. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11994-8 | 16.4 | 268 |
| 373 | Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. <i>Nature Nanotechnology</i> , 2016 , 11, 713-8 | 28.7 | 263 |
| 372 | New Diketopyrrolopyrrole (DPP) Dyes for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1343-1349 | 3.8 | 258 |
| 371 | Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. <i>Science Advances</i> , 2018 , 4, eaat8192 | 14.3 | 224 |
| 370 | Transport of alpha-helical peptides through alpha-hemolysin and aerolysin pores. <i>Biochemistry</i> , 2006 , 45, 9172-9 | 3.2 | 220 |
| 369 | Nanopore-based sequencing and detection of nucleic acids. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13154-61 | 16.4 | 198 |
| 368 | Recent progress in surface enhanced Raman spectroscopy for the detection of environmental pollutants. <i>Mikrochimica Acta</i> , 2014 , 181, 23-43 | 5.8 | 187 |
| 367 | New starburst sensitizer with carbazole antennas for efficient and stable dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2010 , 3, 1736 | 35.4 | 187 |
| 366 | Batch fabrication of disposable screen printed SERS arrays. <i>Lab on A Chip</i> , 2012 , 12, 876-81 | 7.2 | 172 |
| 365 | Asymmetric Nanopore Electrode-Based Amplification for Electron Transfer Imaging in Live Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5385-5392 | 16.4 | 161 |
| 364 | Plasmon resonance scattering spectroscopy at the single-nanoparticle level: real-time monitoring of a click reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6011-4 | 16.4 | 154 |
| 363 | Structure of Peptides Investigated by Nanopore Analysis. <i>Nano Letters</i> , 2004 , 4, 1273-1277 | 11.5 | 154 |
| 362 | Resonance scattering particles as biological nanosensors in vitro and in vivo. <i>Chemical Society Reviews</i> , 2012 , 41, 632-42 | 58.5 | 148 |

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| 361 | Bithiazole-bridged dyes for dye-sensitized solar cells with high open circuit voltage performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6054 | | 145 |
| 360 | Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. <i>Chemical Communications</i> , 2008 , 4885-7 | 5.8 | 139 |
| 359 | Ultrasensitive determination of cysteine based on the photocurrent of nafion-functionalized CdS-MV quantum dots on an ITO electrode. <i>Small</i> , 2011 , 7, 1624-8 | 11 | 136 |
| 358 | Facile on-site detection of substituted aromatic pollutants in water using thin layer chromatography combined with surface-enhanced Raman spectroscopy. <i>Environmental Science & Technology</i> , 2011 , 45, 4046-52 | 10.3 | 135 |
| 357 | Single gold nanoparticles as real-time optical probes for the detection of NADH-dependent intracellular metabolic enzymatic pathways. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6789-92 | 16.4 | 130 |
| 356 | Efficient Passivation of Hybrid Perovskite Solar Cells Using Organic Dyes with -COOH Functional Group. <i>Advanced Energy Materials</i> , 2018 , 8, 1800715 | 21.8 | 127 |
| 355 | Nanopore analysis of amyloid peptide aggregation transition induced by small molecules. <i>Analytical Chemistry</i> , 2011 , 83, 1746-52 | 7.8 | 126 |
| 354 | Rapid and sensitive in-situ detection of polar antibiotics in water using a disposable Ag-graphene sensor based on electrophoretic preconcentration and surface-enhanced Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 94-100 | 11.8 | 123 |
| 353 | Confined Nanopipette Sensing: From Single Molecules, Single Nanoparticles, to Single Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3706-3714 | 16.4 | 122 |
| 352 | New diketo-pyrrolo-pyrrole (DPP) sensitizer containing a furan moiety for efficient and stable dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2012 , 92, 1384-1393 | 4.6 | 121 |
| 351 | Peptide electron transfer: more questions than answers. <i>Chemistry - A European Journal</i> , 2005 , 11, 5186-94 | 2.8 | 117 |
| 350 | Surface-imprinted core-shell Au nanoparticles for selective detection of bisphenol A based on surface-enhanced Raman scattering. <i>Analytica Chimica Acta</i> , 2013 , 777, 57-62 | 6.6 | 115 |
| 349 | Chrominance to dimension: a real-time method for measuring the size of single gold nanoparticles. <i>Analytical Chemistry</i> , 2012 , 84, 4284-91 | 7.8 | 107 |
| 348 | Disposable biosensor based on graphene oxide conjugated with tyrosinase assembled gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3181-6 | 11.8 | 107 |
| 347 | Fluorogenic probing of specific recognitions between sugar ligands and glycoprotein receptors on cancer cells by an economic graphene nanocomposite. <i>Advanced Materials</i> , 2013 , 25, 4097-101 | 24 | 106 |
| 346 | Monitoring of Endogenous Hydrogen Sulfide in Living Cells Using Surface-Enhanced Raman Scattering. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12758-61 | 16.4 | 100 |
| 345 | Electrochemical Sensing at a Confined Space. <i>Analytical Chemistry</i> , 2020 , 92, 5621-5644 | 7.8 | 97 |
| 344 | Biological Nanopores: Confined Spaces for Electrochemical Single-Molecule Analysis. <i>Accounts of Chemical Research</i> , 2018 , 51, 331-341 | 24.3 | 97 |

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| 343 | Portable surface-enhanced Raman scattering sensor for rapid detection of aniline and phenol derivatives by on-site electrostatic preconcentration. <i>Analytical Chemistry</i> , 2010 , 82, 9299-305 | 7.8 | 97 |
| 342 | Tracking motion trajectories of individual nanoparticles using time-resolved current traces. <i>Chemical Science</i> , 2017 , 8, 1854-1861 | 9.4 | 96 |
| 341 | Electrochemical detection of single-nucleotide mismatches: application of M-DNA. <i>Analytical Chemistry</i> , 2004 , 76, 4059-65 | 7.8 | 93 |
| 340 | Nanopore-Based Single-Biomolecule Interfaces: From Information to Knowledge. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15720-15729 | 16.4 | 89 |
| 339 | Novel triazolyl bis-amino acid derivatives readily synthesized via click chemistry as potential corrosion inhibitors for mild steel in HCl. <i>Corrosion Science</i> , 2012 , 57, 220-227 | 6.8 | 89 |
| 338 | A comparison of electron-transfer rates of ferrocenoyl-linked DNA. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8724-5 | 16.4 | 88 |
| 337 | Redox-Mediated Indirect Fluorescence Immunoassay for the Detection of Disease Biomarkers Using Dopamine-Functionalized Quantum Dots. <i>Analytical Chemistry</i> , 2016 , 88, 5131-6 | 7.8 | 88 |
| 336 | 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 | 16.4 | 88 |
| 335 | Advanced electroanalytical chemistry at nanoelectrodes. <i>Chemical Science</i> , 2017 , 8, 3338-3348 | 9.4 | 85 |
| 334 | Monitoring of an ATP-binding aptamer and its conformational changes using an Hemolysin nanopore. <i>Small</i> , 2011 , 7, 87-94 | 11 | 85 |
| 333 | AC impedance spectroscopy of native DNA and M-DNA. <i>Biophysical Journal</i> , 2003 , 84, 3218-25 | 2.9 | 85 |
| 332 | Simultaneous determination of dihydroxybenzene isomers using disposable screen-printed electrode modified by multiwalled carbon nanotubes and gold nanoparticles. <i>Analytical Methods</i> , 2010 , 2, 837 | 3.2 | 84 |
| 331 | Highly selective detection of carbon monoxide in living cells by palladacycle carbonylation-based surface enhanced Raman spectroscopy nanosensors. <i>Analytical Chemistry</i> , 2015 , 87, 9696-701 | 7.8 | 81 |
| 330 | Narrowing band gap of platinum acetylide dye-sensitized solar cell sensitizers with thiophene bridges. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5382 | | 78 |
| 329 | DMA structured platinum acetylide sensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10666 | | 78 |
| 328 | Accurate data process for nanopore analysis. <i>Analytical Chemistry</i> , 2015 , 87, 907-13 | 7.8 | 76 |
| 327 | New insights into electrocatalysis based on plasmon resonance for the real-time monitoring of catalytic events on single gold nanorods. <i>Analytical Chemistry</i> , 2014 , 86, 5513-8 | 7.8 | 74 |
| 326 | 0D-2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. <i>Advanced Materials</i> , 2017 , 29, 1605646 | 24 | 73 |

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| 325 | Single molecule analysis by biological nanopore sensors. <i>Analyst, The</i> , 2014 , 139, 3826-35 | 5 | 72 |
| 324 | Epimeric monosaccharide-quinone hybrids on gold electrodes toward the electrochemical probing of specific carbohydrate-protein recognitions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3649-574 | 16.4 | 72 |
| 323 | Muscle-like Artificial Molecular Actuators for Nanoparticles. <i>CheM</i> , 2018 , 4, 2670-2684 | 16.2 | 71 |
| 322 | Wireless Bipolar Nanopore Electrode for Single Small Molecule Detection. <i>Analytical Chemistry</i> , 2017 , 89, 7382-7387 | 7.8 | 70 |
| 321 | Multiple depositions of Ag nanoparticles on chemically modified agarose films for surface-enhanced Raman spectroscopy. <i>Nanoscale</i> , 2012 , 4, 137-42 | 7.7 | 70 |
| 320 | Simultaneous determination of cadmium(II), lead(II) and copper(II) by using a screen-printed electrode modified with mercury nano-droplets. <i>Mikrochimica Acta</i> , 2010 , 169, 321-326 | 5.8 | 70 |
| 319 | An OFF-ON fluorescent probe for Zn ²⁺ based on a GFP-inspired imidazolone derivative attached to a 1,10-phenanthroline moiety. <i>Chemical Communications</i> , 2011 , 47, 4361-3 | 5.8 | 69 |
| 318 | Cyclic electroplating and stripping of silver on Au@SiO ₂ core/shell nanoparticles for sensitive and recyclable substrate of surface-enhanced Raman scattering. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3688 | | 69 |
| 317 | 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 | 16.4 | 69 |
| 316 | Stochastic Collision Nanoelectrochemistry: A Review of Recent Developments. <i>ChemElectroChem</i> , 2017 , 4, 977-985 | 4.3 | 66 |
| 315 | Quantifying Visible-Light-Induced Electron Transfer Properties of Single Dye-Sensitized ZnO Entity for Water Splitting. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5272-5279 | 16.4 | 66 |
| 314 | Alcohol Dehydrogenase-Catalyzed Gold Nanoparticle Seed-Mediated Growth Allows Reliable Detection of Disease Biomarkers with the Naked Eye. <i>Analytical Chemistry</i> , 2015 , 87, 5891-6 | 7.8 | 66 |
| 313 | Modulation of energy levels by donor groups: an effective approach for optimizing the efficiency of zinc-porphyrin based solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7434 | | 65 |
| 312 | Using a Multi-Shelled Hollow Metal-Organic Framework as a Host to Switch the Guest-to-Host and Guest-to-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2110-2114 | 16.4 | 64 |
| 311 | A bis-boronic acid modified electrode for the sensitive and selective determination of glucose concentrations. <i>Analyst, The</i> , 2013 , 138, 7146-51 | 5 | 61 |
| 310 | Identification of diverse 1,2,3-triazole-connected benzyl glycoside-serine/threonine conjugates as potent corrosion inhibitors for mild steel in HCl. <i>Corrosion Science</i> , 2012 , 64, 64-73 | 6.8 | 60 |
| 309 | Quinone/hydroquinone-functionalized biointerfaces for biological applications from the macro- to nano-scale. <i>Chemical Society Reviews</i> , 2014 , 43, 30-41 | 58.5 | 57 |
| 308 | Reversible redox of NADH and NAD ⁺ at a hybrid lipid bilayer membrane using ubiquinone. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12366-9 | 16.4 | 57 |

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| 307 | Single-molecule analysis in an electrochemical confined space. <i>Science China Chemistry</i> , 2017 , 60, 1187-1190 | 4.9 | 55 |
| 306 | A stimuli-responsive nanopore based on a photoresponsive host-guest system. <i>Scientific Reports</i> , 2013 , 3, 1662 | 4.9 | 55 |
| 305 | Analysis of a single β -synuclein fibrillation by the interaction with a protein nanopore. <i>Analytical Chemistry</i> , 2013 , 85, 8254-61 | 7.8 | 54 |
| 304 | Superior Catalytic Activity of Electrochemically Reduced Graphene Oxide Supported Iron Phthalocyanines toward Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24063-8 | 9.5 | 53 |
| 303 | Electrochemical Investigations of M-DNA Self-Assembled Monolayers on Gold Electrodes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2291-2296 | 3.4 | 53 |
| 302 | A single biomolecule interface for advancing the sensitivity, selectivity and accuracy of sensors. <i>National Science Review</i> , 2018 , 5, 450-452 | 10.8 | 52 |
| 301 | Direct sensing of cancer biomarkers in clinical samples with a designed nanopore. <i>Chemical Communications</i> , 2017 , 53, 11564-11567 | 5.8 | 51 |
| 300 | Single molecule analysis of light-regulated RNA:spiropyran interactions. <i>Chemical Science</i> , 2014 , 5, 2642-2648 | 9.4 | 50 |
| 299 | CdSe/ZnS quantum dot-Cytochrome c bioconjugates for selective intracellular O_2 sensing. <i>Chemical Communications</i> , 2011 , 47, 8539-41 | 5.8 | 50 |
| 298 | Single plasmonic nanoparticles as ultrasensitive sensors. <i>Analyst</i> , 2017 , 142, 409-420 | 5 | 49 |
| 297 | Simultaneous Removal of Multiple Heavy Metal Ions from River Water Using Ultrafine Mesoporous Magnetite Nanoparticles. <i>ACS Omega</i> , 2019 , 4, 7543-7549 | 3.9 | 49 |
| 296 | New organic donor-acceptor-acceptor sensitizers for efficient dye-sensitized solar cells and photocatalytic hydrogen evolution under visible-light irradiation. <i>ChemSusChem</i> , 2014 , 7, 2879-88 | 8.3 | 48 |
| 295 | Nanoplasmonic detection of adenosine triphosphate by aptamer regulated self-catalytic growth of single gold nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 9574-6 | 5.8 | 48 |
| 294 | Catalytic Gold Nanoparticles for Nanoplasmonic Detection of DNA Hybridization. <i>Angewandte Chemie</i> , 2011 , 123, 12200-12204 | 3.6 | 48 |
| 293 | Mapping the sensing spots of aerolysin for single oligonucleotides analysis. <i>Nature Communications</i> , 2018 , 9, 2823 | 17.4 | 47 |
| 292 | Ubiquinone-quantum dot bioconjugates for in vitro and intracellular complex I sensing. <i>Scientific Reports</i> , 2013 , 3, 1537 | 4.9 | 47 |
| 291 | Identification of Essential Sensitive Regions of the Aerolysin Nanopore for Single Oligonucleotide Analysis. <i>Analytical Chemistry</i> , 2018 , 90, 7790-7794 | 7.8 | 46 |
| 290 | Enhanced translocation of poly(dt) ₄₅ through an β -hemolysin nanopore by binding with antibody. <i>Chemical Communications</i> , 2011 , 47, 5690-2 | 5.8 | 46 |

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| 289 | Unveiling the Intrinsic Catalytic Activities of Single-Gold-Nanoparticle-Based Enzyme Mimetics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6327-6332 | 16.4 | 45 |
| 288 | Electrodeposition of single-metal nanoparticles on stable protein 1 membranes: application of plasmonic sensing by single nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 140-4 | 16.4 | 45 |
| 287 | Glucose selective surface plasmon resonance-based bis-boronic acid sensor. <i>Analyst, The</i> , 2013 , 138, 7149-5 | 9.5 | 45 |
| 286 | Driven Translocation of Polynucleotides Through an Aerolysin Nanopore. <i>Analytical Chemistry</i> , 2016 , 88, 5046-9 | 7.8 | 45 |
| 285 | Label-Free Monitoring of Single Molecule Immunoreaction with a Nanopipette. <i>Analytical Chemistry</i> , 2017 , 89, 8203-8206 | 7.8 | 44 |
| 284 | M-DNA: a self-assembling molecular wire for nanoelectronics and biosensing. <i>Analytical Sciences</i> , 2003 , 19, 23-6 | 1.7 | 44 |
| 283 | Binary System for MicroRNA-Targeted Imaging in Single Cells and Photothermal Cancer Therapy. <i>Analytical Chemistry</i> , 2016 , 88, 8640-7 | 7.8 | 44 |
| 282 | Rationally Designed Sensing Selectivity and Sensitivity of an Aerolysin Nanopore via Site-Directed Mutagenesis. <i>ACS Sensors</i> , 2018 , 3, 779-783 | 9.2 | 43 |
| 281 | Humic acids-based one-step fabrication of SERS substrates for detection of polycyclic aromatic hydrocarbons. <i>Analyst, The</i> , 2013 , 138, 1523-8 | 5 | 43 |
| 280 | Low temperature synthesis and SERS application of silver molybdenum oxides. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2558 | 13 | 43 |
| 279 | Color-coded imaging of electrochromic process at single nanoparticle level. <i>Chemical Science</i> , 2016 , 7, 5347-5351 | 9.4 | 43 |
| 278 | Cisplatin effects on evolution of reactive oxygen species from single human bladder cancer cells investigated by scanning electrochemical microscopy. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 115-22 | 4.2 | 42 |
| 277 | Facile fabrication of a silver dendrite-integrated chip for surface-enhanced Raman scattering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2931-6 | 9.5 | 42 |
| 276 | Expeditious preparation of triazole-linked glycolipids via microwave accelerated click chemistry and their electrochemical and biological assessments. <i>Tetrahedron</i> , 2010 , 66, 9974-9980 | 2.4 | 42 |
| 275 | Manipulating and visualizing the dynamic aggregation-induced emission within a confined quartz nanopore. <i>Nature Communications</i> , 2018 , 9, 3657 | 17.4 | 42 |
| 274 | Selective and Sensitive Detection of Methylcytosine by Aerolysin Nanopore under Serum Condition. <i>Analytical Chemistry</i> , 2017 , 89, 11685-11689 | 7.8 | 41 |
| 273 | Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms. <i>Small Methods</i> , 2018 , 2, 1700390 | 12.8 | 41 |
| 272 | A Scattering Nanopore for Single Nanoentity Sensing. <i>ACS Sensors</i> , 2016 , 1, 1086-1090 | 9.2 | 41 |

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| 271 | Effect of chenodeoxycholic acid (CDCA) additive on phenothiazine dyes sensitized photovoltaic performance. <i>Science China Chemistry</i> , 2011 , 54, 699-706 | 7.9 | 41 |
| 270 | Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO ₂ -Filmed Ultramicroelectrode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3758-3762 | 16.4 | 40 |
| 269 | Investigating electron-transfer processes using a biomimetic hybrid bilayer membrane system. <i>Nature Protocols</i> , 2013 , 8, 439-50 | 18.8 | 40 |
| 268 | Real-time monitoring of the aging of single plasmonic copper nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 1511-3 | 5.8 | 40 |
| 267 | Capturing intercellular sugar-mediated ligand-receptor recognitions via a simple yet highly biospecific interfacial system. <i>Scientific Reports</i> , 2013 , 3, 2293 | 4.9 | 40 |
| 266 | Detection of Peptides with Different Charges and Lengths by Using the Aerolysin Nanopore. <i>ChemElectroChem</i> , 2019 , 6, 126-129 | 4.3 | 40 |
| 265 | Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis. <i>Nature Protocols</i> , 2017 , 12, 1901-1911 | 18.8 | 39 |
| 264 | Sensitive detection of protein biomarkers using silver nanoparticles enhanced immunofluorescence assay. <i>Theranostics</i> , 2017 , 7, 876-883 | 12.1 | 39 |
| 263 | In situ high throughput scattering light analysis of single plasmonic nanoparticles in living cells. <i>Theranostics</i> , 2015 , 5, 188-95 | 12.1 | 38 |
| 262 | Single Gold Nanoparticles as Real-Time Optical Probes for the Detection of NADH-Dependent Intracellular Metabolic Enzymatic Pathways. <i>Angewandte Chemie</i> , 2011 , 123, 6921-6924 | 3.6 | 38 |
| 261 | Metal-linked Immunosorbent Assay (MeLISA): the Enzyme-Free Alternative to ELISA for Biomarker Detection in Serum. <i>Theranostics</i> , 2016 , 6, 1732-9 | 12.1 | 38 |
| 260 | Single molecule sensing of amyloid- β aggregation by confined glass nanopores. <i>Chemical Science</i> , 2019 , 10, 10728-10732 | 9.4 | 38 |
| 259 | Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore. <i>Chemical Communications</i> , 2017 , 53, 3539-3542 | 5.8 | 37 |
| 258 | A Two-Stage Dissociation System for Multilayer Imaging of Cancer Biomarker-Synergic Networks in Single Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4802-4805 | 16.4 | 37 |
| 257 | Dynamic tracking of pathogenic receptor expression of live cells using pyrenyl glycoanthraquinone-decorated graphene electrodes. <i>Chemical Science</i> , 2015 , 6, 1996-2001 | 9.4 | 37 |
| 256 | Colorimetric and plasmonic detection of lectins using core-shell gold glyconanoparticles prepared by copper-free click chemistry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1874-8 | 9.5 | 37 |
| 255 | Dual-Targeting Nanovesicles for In Situ Intracellular Imaging of and Discrimination between Wild-type and Mutant p53. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 719-23 | 16.4 | 37 |
| 254 | Biological Nanopore Approach for Single-Molecule Protein Sequencing. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14738-14749 | 16.4 | 37 |

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|-----|---|------|----|
| 253 | Brightening gold nanoparticles: new sensing approach based on plasmon resonance energy transfer. <i>Scientific Reports</i> , 2015 , 5, 10142 | 4.9 | 36 |
| 252 | Coenzyme Q functionalized CdTe/ZnS quantum dots for reactive oxygen species (ROS) imaging. <i>Chemistry - A European Journal</i> , 2011 , 17, 5262-71 | 4.8 | 36 |
| 251 | Direct Readout of Single Nucleobase Variations in an Oligonucleotide. <i>Small</i> , 2017 , 13, 1702011 | 11 | 35 |
| 250 | Single antibody-antigen interactions monitored via transient ionic current recording using nanopore sensors. <i>Chemical Communications</i> , 2017 , 53, 8620-8623 | 5.8 | 35 |
| 249 | SERS detection of polycyclic aromatic hydrocarbons using a bare gold nanoparticles coupled film system. <i>Analyst, The</i> , 2016 , 141, 4359-65 | 5 | 35 |
| 248 | Electrocatalytic Efficiency Analysis of Catechol Molecules for NADH Oxidation during Nanoparticle Collision. <i>Analytical Chemistry</i> , 2016 , 88, 8375-9 | 7.8 | 35 |
| 247 | Real-Time Plasmonic Monitoring of Single Gold Amalgam Nanoalloy Electrochemical Formation and Stripping. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8305-14 | 9.5 | 34 |
| 246 | Single-molecule DNA detection using a novel SP1 protein nanopore. <i>Chemical Communications</i> , 2013 , 49, 1741-3 | 5.8 | 34 |
| 245 | Investigation of Silver Nanoparticle Induced Lipids Changes on a Single Cell Surface by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 1072-1076 | 7.8 | 33 |
| 244 | Target-specific imaging of transmembrane receptors using quinonyl glycosides functionalized quantum dots. <i>Analytical Chemistry</i> , 2014 , 86, 5502-7 | 7.8 | 33 |
| 243 | Plasmon Resonance Scattering Spectroscopy at the Single-Nanoparticle Level: Real-Time Monitoring of a Click Reaction. <i>Angewandte Chemie</i> , 2013 , 125, 6127-6130 | 3.6 | 33 |
| 242 | Understanding the Selectivity of a Multichannel Fluorescent Probe for Peroxynitrite Over Hypochlorite. <i>Bioconjugate Chemistry</i> , 2016 , 27, 341-53 | 6.3 | 32 |
| 241 | Single Nanoparticle Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2019 , 12, 347-370 | 12.5 | 32 |
| 240 | A single gold nanorod as a plasmon resonance energy transfer based nanosensor for high-sensitivity Cu(II) detection. <i>Analyst, The</i> , 2014 , 139, 6435-9 | 5 | 32 |
| 239 | Simultaneous determination of Hg(II) and Zn(II) using a GFP inspired chromophore. <i>Talanta</i> , 2012 , 100, 401-4 | 6.2 | 32 |
| 238 | Wireless nanopore electrodes for analysis of single entities. <i>Nature Protocols</i> , 2019 , 14, 2015-2035 | 18.8 | 31 |
| 237 | Exploring dynamic interactions of single nanoparticles at interfaces for surface-confined electrochemical behavior and size measurement. <i>Nature Communications</i> , 2020 , 11, 2307 | 17.4 | 31 |
| 236 | Protein-DNA interaction: impedance study of MutS binding to a DNA mismatch. <i>Chemical Communications</i> , 2004 , 574-5 | 5.8 | 30 |

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| 235 | Single Ag Nanoparticle Electro-oxidation: Potential-Dependent Current Traces and Potential-Independent Electron Transfer Kinetic. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1429-1433 | 6.4 | 29 |
| 234 | Secondary ion mass spectrometry: The application in the analysis of atmospheric particulate matter. <i>Analytica Chimica Acta</i> , 2017 , 989, 1-14 | 6.6 | 29 |
| 233 | Localized Surface Plasmon Resonance Based Nanobiosensors. <i>Springer Briefs in Molecular Science</i> , 2014 , | 0.6 | 29 |
| 232 | Evaluation of an immobilized artificial carbonic anhydrase model for CO ₂ sequestration. <i>Chemical Science</i> , 2011 , 2, 1515 | 9.4 | 29 |
| 231 | Recent advances in real-time and in situ analysis of an electrode-electrolyte interface by mass spectrometry. <i>Analyst, The</i> , 2017 , 142, 691-699 | 5 | 28 |
| 230 | A lithium-ion-active aerolysin nanopore for effectively trapping long single-stranded DNA. <i>Chemical Science</i> , 2019 , 10, 354-358 | 9.4 | 28 |
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