

Joseph M K Irudayaraj

List of Publications by Year in descending order

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Version: 2024-02-01

242
papers

14,827
citations

15504

65
h-index

23533

111
g-index

248
all docs

248
docs citations

248
times ranked

19282
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Surface-enhanced Raman spectroscopy for cancer characterization. , 2022, , 373-393. | | 0 |
| 2 | Osteosarcoma mechanobiology and therapeutic targets. British Journal of Pharmacology, 2022, 179, 201-217. | 5.4 | 56 |
| 3 | Nephrotoxicity of perfluorooctane sulfonate (PFOS)â€™effect on transcription and epigenetic factors. Environmental Epigenetics, 2022, 8, . | 1.8 | 11 |
| 4 | Hyperspectral dark-field microscopy for pathogen detection based on spectral angle mapping. Sensors and Actuators B: Chemical, 2022, 367, 132042. | 7.8 | 10 |
| 5 | Toward a Mechanistic Understanding of Poly- and Perfluoroalkylated Substances and Cancer. Cancers, 2022, 14, 2919. | 3.7 | 25 |
| 6 | Multi-layered alginate hydrogel structures and bacteria encapsulation. Chemical Communications, 2022, 58, 8584-8587. | 4.1 | 9 |
| 7 | Dynamic Heterochromatin States in Anisotropic Nuclei of Cells on Aligned Nanofibers. ACS Nano, 2022, 16, 10754-10767. | 14.6 | 9 |
| 8 | Enhanced Energy Transfer from Nitrogenâ€™Vacancy Centers to Threeâ€™Dimensional Graphene Heterostructures by Laser Nanoshaping. Advanced Optical Materials, 2021, 9, 2001830. | 7.3 | 12 |
| 9 | Hormesis-Inducing Essential Oil Nanodelivery System Protects Plants against Broad Host-Range Necrotrophs. ACS Nano, 2021, 15, 8338-8349. | 14.6 | 10 |
| 10 | 16S rRNA Monitoring Point-of-Care Magnetic Focus Lateral Flow Sensor. ACS Omega, 2021, 6, 11095-11102. | 3.5 | 7 |
| 11 | Nanovaccine for Plants from Organic Waste: <sc>d</sc>-Limonene-Loaded Chitosan Nanocarriers Protect Plants against <i>Botrytis cinerea</i>. ACS Sustainable Chemistry and Engineering, 2021, 9, 9903-9914. | 6.7 | 11 |
| 12 | Dextran-Based Oxygen Nanobubbles for Treating Inner Retinal Hypoxia. ACS Applied Nano Materials, 2021, 4, 6583-6593. | 5.0 | 10 |
| 13 | Early postnatal exposure to di(2-ethylhexyl) phthalate causes sex-specific disruption of gonadal development in pigs. Reproductive Toxicology, 2021, 105, 53-61. | 2.9 | 7 |
| 14 | Chromosome loading of cohesin depends on conserved residues in Scc3. Current Genetics, 2021, 67, 447-459. | 1.7 | 9 |
| 15 | Chromatin hierarchical branching visualized at the nanoscale by electron microscopy. Nanoscale Advances, 2021, 3, 1019-1028. | 4.6 | 5 |
| 16 | Inhibition mechanism of green-synthesized copper oxide nanoparticles from <i>Cassia fistula</i> towards <i>Fusarium oxysporum</i> by boosting growth and defense response in tomatoes. Environmental Science: Nano, 2021, 8, 1729-1748. | 4.3 | 28 |
| 17 | Per- and Polyfluoroalkyl Substance Exposure Combined with High-Fat Diet Supports Prostate Cancer Progression. Nutrients, 2021, 13, 3902. | 4.1 | 17 |
| 18 | PFOA induces alteration in DNA methylation regulators and SARS-CoV-2 targets Ace2 and Tmprss2 in mouse lung tissues. Toxicology Reports, 2021, 8, 1892-1898. | 3.3 | 13 |

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|----|--|------|-----------|
| 19 | Paper-Based Test for Rapid On-Site Screening of SARS-CoV-2 in Clinical Samples. <i>Biosensors</i> , 2021, 11, 488. | 4.7 | 11 |
| 20 | Rational Design of Surface-State Controlled Multicolor Cross-Linked Carbon Dots with Distinct Photoluminescence and Cellular Uptake Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59747-59760. | 8.0 | 13 |
| 21 | Colorimetric Detection of Organophosphate Pesticides Based on Acetylcholinesterase and Cysteamine Capped Gold Nanoparticles as Nanozyme. <i>Sensors</i> , 2021, 21, 8050. | 3.8 | 21 |
| 22 | Epigenetic alterations associated with dexamethasone sodium phosphate through DNMT and TET in RPE cells.. <i>Molecular Vision</i> , 2021, 27, 643-655. | 1.1 | 0 |
| 23 | Acute PFOA exposure promotes epigenomic alterations in mouse kidney tissues. <i>Toxicology Reports</i> , 2020, 7, 125-132. | 3.3 | 50 |
| 24 | Monomeric cohesin state revealed by live-cell single-molecule spectroscopy. <i>EMBO Reports</i> , 2020, 21, e48211. | 4.5 | 20 |
| 25 | Multiplexable fluorescence lifetime imaging (FLIM) probes for Abl and Src-family kinases. <i>Chemical Communications</i> , 2020, 56, 13409-13412. | 4.1 | 7 |
| 26 | Epigenetic Modifications, and Alterations in Cell Cycle and Apoptosis Pathway in A549 Lung Carcinoma Cell Line upon Exposure to Perfluoroalkyl Substances. <i>Toxics</i> , 2020, 8, 112. | 3.7 | 18 |
| 27 | Effect of Perfluorooctanoic Acid on the Epigenetic and Tight Junction Genes of the Mouse Intestine. <i>Toxics</i> , 2020, 8, 64. | 3.7 | 25 |
| 28 | Copper mediates mitochondrial biogenesis in retinal pigment epithelial cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165843. | 3.8 | 10 |
| 29 | Nanoscale Drug Delivery Systems: From Medicine to Agriculture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 79. | 4.1 | 164 |
| 30 | Multi and transgenerational epigenetic effects of di-(2-ethylhexyl) phthalate (DEHP) in liver. <i>Toxicology and Applied Pharmacology</i> , 2020, 402, 115123. | 2.8 | 18 |
| 31 | Checkpoint enrichment for sensitive detection of target bacteria from large volume of food matrices. <i>Analytica Chimica Acta</i> , 2020, 1127, 114-121. | 5.4 | 4 |
| 32 | Epigenetic toxicity of PFOA and GenX in HepG2 cells and their role in lipid metabolism. <i>Toxicology in Vitro</i> , 2020, 65, 104797. | 2.4 | 64 |
| 33 | Effect of PFOA on DNA Methylation and Alternative Splicing in Mouse Liver. <i>Toxicology Letters</i> , 2020, 329, 38-46. | 0.8 | 26 |
| 34 | Perfluorooctanoic acid (PFOA) exposure inhibits DNA methyltransferase activities and alters constitutive heterochromatin organization. <i>Food and Chemical Toxicology</i> , 2020, 141, 111358. | 3.6 | 17 |
| 35 | Nano drug delivery systems in upper gastrointestinal cancer therapy. <i>Nano Convergence</i> , 2020, 7, 38. | 12.1 | 20 |
| 36 | CAF-1 and Rtt101p function within the replication-coupled chromatin assembly network to promote H4 K16ac, preventing ectopic silencing. <i>PLoS Genetics</i> , 2020, 16, e1009226. | 3.5 | 3 |

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|----|--|------|-----------|
| 37 | Understanding the dynamics and structure of epigenetic states with single-molecule fluorescence microscopy. <i>Current Opinion in Biomedical Engineering</i> , 2019, 12, 18-24. | 3.4 | 1 |
| 38 | Prenatal and ancestral exposure to di(2-ethylhexyl) phthalate alters gene expression and DNA methylation in mouse ovaries. <i>Toxicology and Applied Pharmacology</i> , 2019, 379, 114629. | 2.8 | 39 |
| 39 | The transition structure of chromatin fibers at the nanoscale probed by cryogenic electron tomography. <i>Nanoscale</i> , 2019, 11, 13783-13789. | 5.6 | 8 |
| 40 | Epigenetic Process Monitoring in Live Cultures with Peptide Biosensors. <i>ACS Sensors</i> , 2019, 4, 562-565. | 7.8 | 7 |
| 41 | Modulation of Gene Silencing by Cdc7p via H4 K16 Acetylation and Phosphorylation of Chromatin Assembly Factor CAF-1 in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2019, 211, 1219-1237. | 2.9 | 5 |
| 42 | Magnetic Focus Lateral Flow Sensor for Detection of Cervical Cancer Biomarkers. <i>Analytical Chemistry</i> , 2019, 91, 2876-2884. | 6.5 | 52 |
| 43 | Bioinspired glycosaminoglycan hydrogels via click chemistry for 3D dynamic cell encapsulation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47212. | 2.6 | 19 |
| 44 | Plasmonic enhancement in lateral flow sensors for improved sensing of E. coli O157:H7. <i>Biosensors and Bioelectronics</i> , 2019, 126, 324-331. | 10.1 | 40 |
| 45 | Laser Shock Tuning Dynamic Interlayer Coupling in Graphene–Boron Nitride Moiré Superlattices. <i>Nano Letters</i> , 2019, 19, 283-291. | 9.1 | 31 |
| 46 | Epigenetic biomarker screening by FLIM-FRET for combination therapy in ER+ breast cancer. <i>Clinical Epigenetics</i> , 2019, 11, 16. | 4.1 | 30 |
| 47 | Ultrasound beam steering of oxygen nanobubbles for enhanced bladder cancer therapy. <i>Scientific Reports</i> , 2018, 8, 3112. | 3.3 | 39 |
| 48 | Impedimetric detection of bacteria by using a microfluidic chip and silver nanoparticle based signal enhancement. <i>Mikrochimica Acta</i> , 2018, 185, 184. | 5.0 | 37 |
| 49 | Exploring the anti-quorum sensing activity of a limonene nanoemulsion for <i>Escherichia coli</i> O157:H7. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1979-1986. | 4.0 | 20 |
| 50 | Alpha Lead Oxide (α -PbO): A New 2D Material with Visible Light Sensitivity. <i>Small</i> , 2018, 14, e1703346. | 10.0 | 58 |
| 51 | Filtration-Assisted Fabrication of Large-Area Uniform and Long-Term Stable Graphene Isolated Nano-Ag Array Membrane as Surface Enhanced Raman Scattering Substrate. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701221. | 3.7 | 12 |
| 52 | An ultrasensitive aptasensor based on fluorescent resonant energy transfer and exonuclease-assisted target recycling for patulin detection. <i>Food Chemistry</i> , 2018, 249, 136-142. | 8.2 | 75 |
| 53 | Current Technologies of Electrochemical Immunosensors: Perspective on Signal Amplification. <i>Sensors</i> , 2018, 18, 207. | 3.8 | 157 |
| 54 | Oxygen Nanobubble Tracking by Light Scattering in Single Cells and Tissues. <i>ACS Nano</i> , 2017, 11, 2682-2688. | 14.6 | 42 |

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|----|---|-----|-----------|
| 55 | Epigenetic Editing of Ascl1 Gene in Neural Stem Cells by Optogenetics. Scientific Reports, 2017, 7, 42047. | 3.3 | 45 |
| 56 | Technical advances in global DNA methylation analysis in human cancers. Journal of Biological Engineering, 2017, 11, 10. | 4.7 | 32 |
| 57 | PLGA-PEG nano-delivery system for epigenetic therapy. Biomedicine and Pharmacotherapy, 2017, 90, 586-597. | 5.6 | 24 |
| 58 | An integrated microsystem with dielectrophoresis enrichment and impedance detection for detection of Escherichia coli. Biomedical Microdevices, 2017, 19, 34. | 2.8 | 16 |
| 59 | Cover Image, Volume 9, Issue 4. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1484. | 6.1 | 1 |
| 60 | Monitoring focal adhesion kinase phosphorylation dynamics in live cells. Analyst, The, 2017, 142, 2713-2716. | 3.5 | 10 |
| 61 | Single molecule Raman spectroscopic assay to detect transgene from GM plants. Analytical Biochemistry, 2017, 532, 60-63. | 2.4 | 14 |
| 62 | ZnO nanoparticles induced reactive oxygen species promotes multimodal cyto- and epigenetic toxicity. Toxicological Sciences, 2017, 156, kfw252. | 3.1 | 63 |
| 63 | Highly sensitive fluorescence sensing of zearalenone using a novel aptasensor based on upconverting nanoparticles. Food Chemistry, 2017, 230, 673-680. | 8.2 | 102 |
| 64 | Multiplex single-cell quantification of rare <scp>RNA</scp> transcripts from protoplasts in a model plant system. Plant Journal, 2017, 90, 1187-1195. | 5.7 | 23 |
| 65 | A net fishing enrichment strategy for colorimetric detection of E. coli O157:H7. Sensors and Actuators B: Chemical, 2017, 247, 923-929. | 7.8 | 21 |
| 66 | Comparative<i>in vitro</i> toxicity assessment of perfluorinated carboxylic acids. Journal of Applied Toxicology, 2017, 37, 699-708. | 2.8 | 52 |
| 67 | Prosperity to challenges: recent approaches in SERS substrate fabrication. Reviews in Analytical Chemistry, 2017, 36, . | 3.2 | 44 |
| 68 | EZH2 Modifies Sunitinib Resistance in Renal Cell Carcinoma by Kinome Reprogramming. Cancer Research, 2017, 77, 6651-6666. | 0.9 | 66 |
| 69 | Toxicological effects of trichloroethylene exposure on immune disorders. Immunopharmacology and Immunotoxicology, 2017, 39, 305-317. | 2.4 | 16 |
| 70 | Oxygen nanobubbles revert hypoxia by methylation programming. Scientific Reports, 2017, 7, 9268. | 3.3 | 45 |
| 71 | Bimodal counterpropagating-responsive sensing material for the detection of histamine. RSC Advances, 2017, 7, 44933-44944. | 3.6 | 27 |
| 72 | Real-Time Multiplex Kinase Phosphorylation Sensors in Living Cells. ACS Sensors, 2017, 2, 1225-1230. | 7.8 | 10 |

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| 73 | Beyond quantification: <i>in situ</i> analysis of transcriptome and pre-mRNA alternative splicing at the nanoscale. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1443. | 6.1 | 9 |
| 74 | A reusable laser wrapped graphene-Ag array based SERS sensor for trace detection of genomic DNA methylation. Biosensors and Bioelectronics, 2017, 92, 755-762. | 10.1 | 81 |
| 75 | Hypoxia Re-Programming Oxygen Nanobubbles Sensitize Human Glioblastoma Cells to Temozolomide via Methylation Alterations. Journal of Bionanoscience, 2017, 11, 337-345. | 0.4 | 4 |
| 76 | Basic studies on epigenetic carcinogenesis of low-dose exposure to 1-trichloromethyl-1,2,3,4-tetrahydro- β -carboline (TaClo) in vitro. PLoS ONE, 2017, 12, e0172243. | 2.5 | 2 |
| 77 | Optical Microscopy and Spectroscopy for Epigenetic Modifications in Single Living Cells. Methods in Pharmacology and Toxicology, 2017, , 135-154. | 0.2 | 1 |
| 78 | CRISPR-dCas9 mediated TET1 targeting for selective DNA demethylation at <i>BRCA1</i> promoter. Oncotarget, 2016, 7, 46545-46556. | 1.8 | 263 |
| 79 | Superplastic Formation of Metal Nanostructure Arrays with Ultrafine Gaps. Advanced Materials, 2016, 28, 9152-9162. | 21.0 | 24 |
| 80 | Non-fluorescent quantification of single mRNA with transient absorption microscopy. Nanoscale, 2016, 8, 19242-19248. | 5.6 | 7 |
| 81 | Epigenetic toxicity of trichloroethylene: a single-molecule perspective. Toxicology Research, 2016, 5, 641-650. | 2.1 | 10 |
| 82 | Optical Clearing Delivers Ultrasensitive Hyperspectral Dark-Field Imaging for Single-Cell Evaluation. ACS Nano, 2016, 10, 3132-3143. | 14.6 | 52 |
| 83 | Ultrasensitive detection of microbial cells using magnetic focus enhanced lateral flow sensors. Chemical Communications, 2016, 52, 4930-4933. | 4.1 | 50 |
| 84 | Mitochondrial Dysfunction, Disruption of F-Actin Polymerization, and Transcriptomic Alterations in Zebrafish Larvae Exposed to Trichloroethylene. Chemical Research in Toxicology, 2016, 29, 169-179. | 3.3 | 21 |
| 85 | Kinase phosphorylation monitoring with i-motif DNA cross-linked SERS probes. Chemical Communications, 2016, 52, 410-413. | 4.1 | 11 |
| 86 | A Study of Alterations in DNA Epigenetic Modifications (5mC and 5hmC) and Gene Expression Influenced by Simulated Microgravity in Human Lymphoblastoid Cells. PLoS ONE, 2016, 11, e0147514. | 2.5 | 28 |
| 87 | Optogenetic regulation of site-specific subtelomeric DNA-methylation. Oncotarget, 2016, 7, 50380-50391. | 1.8 | 23 |
| 88 | Regulatory landscape and clinical implication of MBD3 in human malignant glioma. Oncotarget, 2016, 7, 81698-81714. | 1.8 | 7 |
| 89 | Point-of-care test for cervical cancer in LMICs. Oncotarget, 2016, 7, 18787-18797. | 1.8 | 16 |
| 90 | Selective increase in subtelomeric DNA methylation: an epigenetic biomarker for malignant glioma. Clinical Epigenetics, 2015, 7, 107. | 4.1 | 21 |

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|-----|---|------|-----------|
| 91 | Enhanced Multiphoton Emission from CdTe/ZnS Quantum Dots Decorated on Single-Layer Graphene. Journal of Physical Chemistry C, 2015, 119, 6331-6336. | 3.1 | 24 |
| 92 | Decitabine Nanoconjugate Sensitizes Human Glioblastoma Cells to Temozolomide. Molecular Pharmaceutics, 2015, 12, 1279-1288. | 4.6 | 22 |
| 93 | Modified graphene oxide sensors for ultra-sensitive detection of nitrate ions in water. Talanta, 2015, 143, 234-239. | 5.5 | 40 |
| 94 | Rapid and unbiased extraction of chromatin associated RNAs from purified native chromatin. Journal of Chromatography A, 2015, 1426, 64-68. | 3.7 | 1 |
| 95 | Latest Developments of Nanotoxicology in Plants. , 2015, , 125-151. | | 3 |
| 96 | Enhancement of single-photon emission from nitrogen-vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. Laser and Photonics Reviews, 2015, 9, 120-127. | 8.7 | 93 |
| 97 | High performance immunochromatographic assay combined with surface enhanced Raman spectroscopy. Sensors and Actuators B: Chemical, 2015, 213, 209-214. | 7.8 | 20 |
| 98 | The hypomethylating agent Decitabine causes a paradoxical increase in 5-hydroxymethylcytosine in human leukemia cells. Scientific Reports, 2015, 5, 9281. | 3.3 | 30 |
| 99 | Rapid pathogen detection by lateral-flow immunochromatographic assay with gold nanoparticle-assisted enzyme signal amplification. International Journal of Food Microbiology, 2015, 206, 60-66. | 4.7 | 95 |
| 100 | Single-cell screening and quantification of transcripts in cancer tissues by second-harmonic generation microscopy. Journal of Biomedical Optics, 2015, 20, 096016. | 2.6 | 5 |
| 101 | Single-Cell Quantification of Cytosine Modifications by Hyperspectral Dark-Field Imaging. ACS Nano, 2015, 9, 11924-11932. | 14.6 | 54 |
| 102 | Dissecting the behavior and function of MBD3 in DNA methylation homeostasis by single-molecule spectroscopy and microscopy. Nucleic Acids Research, 2015, 43, 3046-3055. | 14.5 | 28 |
| 103 | Cross-platform detection of epigenetic modifications from extracted chromatin in leucocytes from blood. Analytical Chemistry Research, 2015, 4, 39-44. | 2.0 | 5 |
| 104 | Graphene laminated gold bipyramids as sensitive detection platforms for antibiotic molecules. Chemical Communications, 2015, 51, 15494-15497. | 4.1 | 55 |
| 105 | Trichloroethylene sensing in water based on SERS with multifunctional Au/TiO ₂ core-shell nanocomposites. Analyst, The, 2015, 140, 6625-6630. | 3.5 | 12 |
| 106 | Water flattens graphene wrinkles: laser shock wrapping of graphene onto substrate-supported crystalline plasmonic nanoparticle arrays. Nanoscale, 2015, 7, 19885-19893. | 5.6 | 41 |
| 107 | A native chromatin extraction method based on salicylic acid coated magnetic nanoparticles and characterization of chromatin. Analyst, The, 2015, 140, 938-944. | 3.5 | 10 |
| 108 | Fourier transform infrared spectroscopy and near infrared spectroscopy for the quantification of defects in roasted coffees. Talanta, 2015, 134, 379-386. | 5.5 | 53 |

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|-----|--|------|-----------|
| 109 | Inside single cells: quantitative analysis with advanced optics and nanomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 387-407. | 6.1 | 22 |
| 110 | Membrane filter-assisted surface enhanced Raman spectroscopy for the rapid detection of E. coli O157:H7 in ground beef. Biosensors and Bioelectronics, 2015, 64, 171-176. | 10.1 | 100 |
| 111 | Nanoscale histone localization in live cells reveals reduced chromatin mobility in response to DNA damage. Development (Cambridge), 2015, 142, e0407-e0407. | 2.5 | 8 |
| 112 | Nanoscale histone localization in live cells reveals reduced chromatin mobility in response to DNA damage. Journal of Cell Science, 2014, 128, 599-604. | 2.0 | 18 |
| 113 | Quantifying the local density of optical states of nanorods by fluorescence lifetime imaging. New Journal of Physics, 2014, 16, 063069. | 2.9 | 8 |
| 114 | mRNA quantification via second harmonic super resolution microscopy. , 2014, , . | | 0 |
| 115 | Second Harmonic Super-resolution Microscopy for Quantification of mRNA at Single Copy Sensitivity. ACS Nano, 2014, 8, 12418-12427. | 14.6 | 37 |
| 116 | Effect of <scp>T</scp>â€<scp>DNA</scp> insertions on <scp>mRNA</scp> transcript copy numbers upstream and downstream of the insertion site in <i><scp>A</scp>rabisidopsis thaliana</i> explored by surface enhanced <scp>R</scp>aman spectroscopy. Plant Biotechnology Journal, 2014, 12, 568-577. | 8.3 | 19 |
| 117 | Quantifying local density of optical states of nanorods by fluorescence lifetime imaging. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 118 | In-situ fluorescent immunomagnetic multiplex detection of foodborne pathogens in very low numbers. Biosensors and Bioelectronics, 2014, 57, 143-148. | 10.1 | 70 |
| 119 | Detection and quantification of alternative splice sites in Arabidopsis genes AtDCL2 and AtPTB2 with highly sensitive surface enhanced Raman spectroscopy (SERS) and gold nanoprobe. FEBS Letters, 2014, 588, 1637-1643. | 2.8 | 18 |
| 120 | Quantitative real-time kinetics of optogenetic proteins CRY2 and CIB1/N using single-molecule tools. Analytical Biochemistry, 2014, 458, 58-60. | 2.4 | 9 |
| 121 | Quantitative imaging of single mRNA splice variants in living cells. Nature Nanotechnology, 2014, 9, 474-480. | 31.5 | 148 |
| 122 | Epitaxial superlattices with titanium nitride as a plasmonic component for optical hyperbolic metamaterials. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7546-7551. | 7.1 | 198 |
| 123 | Quantification of 5-methylcytosine, 5-hydroxymethylcytosine and 5-carboxylcytosine from the blood of cancer patients by an enzyme-based immunoassay. Analytica Chimica Acta, 2014, 852, 212-217. | 5.4 | 57 |
| 124 | Understanding the Mechanical Properties of DNA Origami Tiles and Controlling the Kinetics of Their Folding and Unfolding Reconfiguration. Journal of the American Chemical Society, 2014, 136, 6995-7005. | 13.7 | 59 |
| 125 | Application of elastic net and infrared spectroscopy in the discrimination between defective and non-defective roasted coffees. Talanta, 2014, 128, 393-400. | 5.5 | 54 |
| 126 | Nano/Micro and Spectroscopic Approaches to Food Pathogen Detection. Annual Review of Analytical Chemistry, 2014, 7, 65-88. | 5.4 | 42 |

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|-----|--|------|-----------|
| 127 | Targeted in vivo photodynamic therapy with epidermal growth factor receptor-specific peptide linked nanoparticles. International Journal of Pharmaceutics, 2014, 471, 421-429. | 5.2 | 30 |
| 128 | Diversity of two forms of DNA methylation in the brain. Frontiers in Genetics, 2014, 5, 46. | 2.3 | 63 |
| 129 | Lateral-flow enzyme immunoconcentration for rapid detection of <i>Listeria monocytogenes</i> . Analytical and Bioanalytical Chemistry, 2013, 405, 3313-3319. | 3.7 | 89 |
| 130 | One-stop genomic DNA extraction by salicylic acid-coated magnetic nanoparticles. Analytical Biochemistry, 2013, 442, 249-252. | 2.4 | 31 |
| 131 | In-situ immuno-gold nanoparticle network ELISA biosensors for pathogen detection. International Journal of Food Microbiology, 2013, 164, 70-75. | 4.7 | 136 |
| 132 | A hybrid FLIM-elastic net platform for label free profiling of breast cancer. Analyst, The, 2013, 138, 7127. | 3.5 | 13 |
| 133 | Fluorescence Lifetime Imaging of Biosensor Peptide Phosphorylation in Single Live Cells. Angewandte Chemie - International Edition, 2013, 52, 3931-3934. | 13.8 | 43 |
| 134 | Surface-Enhanced Raman Spectroscopy Applied to Food Safety. Annual Review of Food Science and Technology, 2013, 4, 369-380. | 9.9 | 305 |
| 135 | Nanostructured thin films as surface-enhanced Raman scattering substrates. Journal of Raman Spectroscopy, 2013, 44, 35-40. | 2.5 | 12 |
| 136 | Broadband enhancement of spontaneous emission from nitrogen-vacancy centers in nanodiamonds by hyperbolic metamaterials. Applied Physics Letters, 2013, 102, 173114. | 3.3 | 68 |
| 137 | Correct Spectral Conversion between Surface-Enhanced Raman and Plasmon Resonance Scattering from Nanoparticle Dimers for Single-Molecule Detection. Small, 2013, 9, 1106-1115. | 10.0 | 38 |
| 138 | Probing site-exclusive binding of aqueous QDs and their organelle-dependent dynamics in live cells by single molecule spectroscopy. Analyst, The, 2013, 138, 2871. | 3.5 | 9 |
| 139 | Second harmonic generation correlation spectroscopy for single molecule experiments. Optics Express, 2013, 21, 27063. | 3.4 | 12 |
| 140 | Differentiation of cancer cells in two-dimensional and three-dimensional breast cancer models by Raman spectroscopy. Journal of Biomedical Optics, 2013, 18, 117008. | 2.6 | 11 |
| 141 | Surface-enhanced Raman spectroscopy at single-molecule scale and its implications in biology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120026. | 4.0 | 96 |
| 142 | Real-time dynamics of methyl-CpG-binding domain protein 3 and its role in DNA demethylation by fluorescence correlation spectroscopy. Epigenetics, 2013, 8, 1089-1100. | 2.7 | 23 |
| 143 | Gene Expression Analysis Using Conventional and Imaging Methods. , 2013, , 141-162. | | 2 |
| 144 | Single Molecule Tools Elucidate H2A.Z Nucleosome Composition. Journal of Cell Science, 2012, 125, 2954-64. | 2.0 | 39 |

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|-----|---|------|-----------|
| 145 | Opto-electrokinetic manipulation for high-performance on-chip bioassays. Lab on A Chip, 2012, 12, 4955. | 6.0 | 32 |
| 146 | Surface enhanced Raman spectroscopy (SERS) for the discrimination of Arthrobacter strains based on variations in cell surface composition. Analyst, The, 2012, 137, 4280. | 3.5 | 34 |
| 147 | Hydrodynamic Size-Dependent Cellular Uptake of Aqueous QDs Probed by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 12125-12132. | 2.6 | 37 |
| 148 | Intracellularly grown gold nanoislands as SERS substrates for monitoring chromate, sulfate and nitrate localization sites in remediating bacteria biofilms by Raman chemical imaging. Analytica Chimica Acta, 2012, 745, 1-9. | 5.4 | 21 |
| 149 | FTIR nanobiosensors for <i>Escherichia coli</i> detection. Beilstein Journal of Nanotechnology, 2012, 3, 485-492. | 2.8 | 36 |
| 150 | Folic Acid Protected Silver Nanocarriers for Targeted Drug Delivery. Journal of Biomedical Nanotechnology, 2012, 8, 751-759. | 1.1 | 72 |
| 151 | Multifunctional gold nanorod theragnostics probed by multi-photon imaging. European Journal of Medicinal Chemistry, 2012, 48, 330-337. | 5.5 | 19 |
| 152 | A SERS DNAzyme biosensor for lead ion detection. Chemical Communications, 2011, 47, 4394. | 4.1 | 150 |
| 153 | Raman Chemical Imaging of Chromate Reduction Sites in a Single Bacterium Using Intracellularly Grown Gold Nanoislands. ACS Nano, 2011, 5, 4729-4736. | 14.6 | 34 |
| 154 | DNA-Gold Nanoparticle Reversible Networks Grown on Cell Surface Marker Sites: Application in Diagnostics. ACS Nano, 2011, 5, 2109-2117. | 14.6 | 137 |
| 155 | Fluorescent Ag Clusters via a Protein-Directed Approach as a Hg(II) Ion Sensor. Analytical Chemistry, 2011, 83, 2883-2889. | 6.5 | 400 |
| 156 | Nuclear Targeting Dynamics of Gold Nanoclusters for Enhanced Therapy of HER2 ⁺ Breast Cancer. ACS Nano, 2011, 5, 9718-9725. | 14.6 | 246 |
| 157 | Protein-directed reduction of graphene oxide and intracellular imaging. Chemical Communications, 2011, 47, 12658. | 4.1 | 60 |
| 158 | Gold nanoprobe for theranostics. Nanomedicine, 2011, 6, 1787-1811. | 3.3 | 51 |
| 159 | Single Molecule In Vivo Analysis of Toll-Like Receptor 9 and CpG DNA Interaction. PLoS ONE, 2011, 6, e17991. | 2.5 | 31 |
| 160 | Innovative Composite Films of Chitosan, Methylcellulose, and Nanoparticles. Journal of Food Science, 2011, 76, N54-60. | 3.1 | 21 |
| 161 | Separation and detection of multiple pathogens in a food matrix by magnetic SERS nanoprobe. Analytical and Bioanalytical Chemistry, 2011, 399, 1271-1278. | 3.7 | 153 |
| 162 | Quantification of receptor targeting aptamer binding characteristics using single-molecule spectroscopy. Biotechnology and Bioengineering, 2011, 108, 1222-1227. | 3.3 | 10 |

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