

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

17776

65
h-index

26792

111
g-index

248
all docs

248
docs citations

248
times ranked

21777
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.	2.7	56
3	Nephrotoxicity of perfluorooctane sulfonate (PFOS)â€™ effect on transcription and epigenetic factors. Environmental Epigenetics, 2022, 8, .	0.9	11
4	Hyperspectral dark-field microscopy for pathogen detection based on spectral angle mapping. Sensors and Actuators B: Chemical, 2022, 367, 132042.	4.0	10
5	Toward a Mechanistic Understanding of Poly- and Perfluoroalkylated Substances and Cancer. Cancers, 2022, 14, 2919.	1.7	25
6	Multi-layered alginate hydrogel structures and bacteria encapsulation. Chemical Communications, 2022, 58, 8584-8587.	2.2	9
7	Dynamic Heterochromatin States in Anisotropic Nuclei of Cells on Aligned Nanofibers. ACS Nano, 2022, 16, 10754-10767.	7.3	9
8	Enhanced Energy Transfer from Nitrogenâ€™Vacancy Centers to Threeâ€™Dimensional Graphene Heterostructures by Laser Nanoshaping. Advanced Optical Materials, 2021, 9, 2001830.	3.6	12
9	Hormesis-Inducing Essential Oil Nanodelivery System Protects Plants against Broad Host-Range Necrotrophs. ACS Nano, 2021, 15, 8338-8349.	7.3	10
10	16S rRNA Monitoring Point-of-Care Magnetic Focus Lateral Flow Sensor. ACS Omega, 2021, 6, 11095-11102.	1.6	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.	3.2	11
12	Dextran-Based Oxygen Nanobubbles for Treating Inner Retinal Hypoxia. ACS Applied Nano Materials, 2021, 4, 6583-6593.	2.4	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.	1.3	7
14	Chromosome loading of cohesin depends on conserved residues in Scc3. Current Genetics, 2021, 67, 447-459.	0.8	9
15	Chromatin hierarchical branching visualized at the nanoscale by electron microscopy. Nanoscale Advances, 2021, 3, 1019-1028.	2.2	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.	2.2	28
17	Per- and Polyfluoroalkyl Substance Exposure Combined with High-Fat Diet Supports Prostate Cancer Progression. Nutrients, 2021, 13, 3902.	1.7	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.	1.6	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.	2.3	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.	4.0	13
21	Colorimetric Detection of Organophosphate Pesticides Based on Acetylcholinesterase and Cysteamine Capped Gold Nanoparticles as Nanozyme. <i>Sensors</i> , 2021, 21, 8050.	2.1	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.	1.6	50
24	Monomeric cohesin state revealed by live-cell single-molecule spectroscopy. <i>EMBO Reports</i> , 2020, 21, e48211.	2.0	20
25	Multiplexable fluorescence lifetime imaging (FLIM) probes for Abl and Src-family kinases. <i>Chemical Communications</i> , 2020, 56, 13409-13412.	2.2	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.	1.6	18
27	Effect of Perfluorooctanoic Acid on the Epigenetic and Tight Junction Genes of the Mouse Intestine. <i>Toxics</i> , 2020, 8, 64.	1.6	25
28	Copper mediates mitochondrial biogenesis in retinal pigment epithelial cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165843.	1.8	10
29	Nanoscale Drug Delivery Systems: From Medicine to Agriculture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 79.	2.0	164
30	Multi and transgenerational epigenetic effects of di-(2-ethylhexyl) phthalate (DEHP) in liver. <i>Toxicology and Applied Pharmacology</i> , 2020, 402, 115123.	1.3	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.	2.6	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.	1.1	64
33	Effect of PFOA on DNA Methylation and Alternative Splicing in Mouse Liver. <i>Toxicology Letters</i> , 2020, 329, 38-46.	0.4	26
34	Perfluorooctanoic acid (PFOA) exposure inhibits DNA methyltransferase activities and alters constitutive heterochromatin organization. <i>Food and Chemical Toxicology</i> , 2020, 141, 111358.	1.8	17
35	Nano drug delivery systems in upper gastrointestinal cancer therapy. <i>Nano Convergence</i> , 2020, 7, 38.	6.3	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.	1.5	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.	1.8	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.	1.3	39
39	The transition structure of chromatin fibers at the nanoscale probed by cryogenic electron tomography. <i>Nanoscale</i> , 2019, 11, 13783-13789.	2.8	8
40	Epigenetic Process Monitoring in Live Cultures with Peptide Biosensors. <i>ACS Sensors</i> , 2019, 4, 562-565.	4.0	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.	1.2	5
42	Magnetic Focus Lateral Flow Sensor for Detection of Cervical Cancer Biomarkers. <i>Analytical Chemistry</i> , 2019, 91, 2876-2884.	3.2	52
43	Bioinspired glycosaminoglycan hydrogels via click chemistry for 3D dynamic cell encapsulation. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47212.	1.3	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.	5.3	40
45	Laser Shock Tuning Dynamic Interlayer Coupling in Graphene-Boron Nitride Moiré Superlattices. <i>Nano Letters</i> , 2019, 19, 283-291.	4.5	31
46	Epigenetic biomarker screening by FLIM-FRET for combination therapy in ER+ breast cancer. <i>Clinical Epigenetics</i> , 2019, 11, 16.	1.8	30
47	Ultrasound beam steering of oxygen nanobubbles for enhanced bladder cancer therapy. <i>Scientific Reports</i> , 2018, 8, 3112.	1.6	39
48	Impedimetric detection of bacteria by using a microfluidic chip and silver nanoparticle based signal enhancement. <i>Mikrochimica Acta</i> , 2018, 185, 184.	2.5	37
49	Exploring the anti-quorum sensing activity of a α -limonene nanoemulsion for <i>Escherichia coli</i> O157:H7. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1979-1986.	2.1	20
50	Alpha Lead Oxide (α -PbO): A New 2D Material with Visible Light Sensitivity. <i>Small</i> , 2018, 14, e1703346.	5.2	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.	1.9	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.	4.2	75
53	Current Technologies of Electrochemical Immunosensors: Perspective on Signal Amplification. <i>Sensors</i> , 2018, 18, 207.	2.1	157
54	Oxygen Nanobubble Tracking by Light Scattering in Single Cells and Tissues. <i>ACS Nano</i> , 2017, 11, 2682-2688.	7.3	42

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55	Epigenetic Editing of Ascl1 Gene in Neural Stem Cells by Optogenetics. Scientific Reports, 2017, 7, 42047.	1.6	45
56	Technical advances in global DNA methylation analysis in human cancers. Journal of Biological Engineering, 2017, 11, 10.	2.0	32
57	PLGA-PEG nano-delivery system for epigenetic therapy. Biomedicine and Pharmacotherapy, 2017, 90, 586-597.	2.5	24
58	An integrated microsystem with dielectrophoresis enrichment and impedance detection for detection of Escherichia coli. Biomedical Microdevices, 2017, 19, 34.	1.4	16
59	Cover Image, Volume 9, Issue 4. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1484.	3.3	1
60	Monitoring focal adhesion kinase phosphorylation dynamics in live cells. Analyst, The, 2017, 142, 2713-2716.	1.7	10
61	Single molecule Raman spectroscopic assay to detect transgene from GM plants. Analytical Biochemistry, 2017, 532, 60-63.	1.1	14
62	ZnO nanoparticles induced reactive oxygen species promotes multimodal cyto- and epigenetic toxicity. Toxicological Sciences, 2017, 156, kfw252.	1.4	63
63	Highly sensitive fluorescence sensing of zearalenone using a novel aptasensor based on upconverting nanoparticles. Food Chemistry, 2017, 230, 673-680.	4.2	102
64	Multiplex single-cell quantification of rare <sc>RNA</sc> transcripts from protoplasts in a model plant system. Plant Journal, 2017, 90, 1187-1195.	2.8	23
65	A net fishing enrichment strategy for colorimetric detection of E. coli O157:H7. Sensors and Actuators B: Chemical, 2017, 247, 923-929.	4.0	21
66	Comparative<i>in vitro</i> toxicity assessment of perfluorinated carboxylic acids. Journal of Applied Toxicology, 2017, 37, 699-708.	1.4	52
67	Prosperity to challenges: recent approaches in SERS substrate fabrication. Reviews in Analytical Chemistry, 2017, 36, .	1.5	44
68	EZH2 Modifies Sunitinib Resistance in Renal Cell Carcinoma by Kinome Reprogramming. Cancer Research, 2017, 77, 6651-6666.	0.4	66
69	Toxicological effects of trichloroethylene exposure on immune disorders. Immunopharmacology and Immunotoxicology, 2017, 39, 305-317.	1.1	16
70	Oxygen nanobubbles revert hypoxia by methylation programming. Scientific Reports, 2017, 7, 9268.	1.6	45
71	Bimodal counterpropagating-responsive sensing material for the detection of histamine. RSC Advances, 2017, 7, 44933-44944.	1.7	27
72	Real-Time Multiplex Kinase Phosphorylation Sensors in Living Cells. ACS Sensors, 2017, 2, 1225-1230.	4.0	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.	3.3	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.	5.3	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.	1.1	2
77	Optical Microscopy and Spectroscopy for Epigenetic Modifications in Single Living Cells. Methods in Pharmacology and Toxicology, 2017, , 135-154.	0.1	1
78	CRISPR-dCas9 mediated TET1 targeting for selective DNA demethylation at <i>BRCA1</i> promoter. Oncotarget, 2016, 7, 46545-46556.	0.8	263
79	Superplastic Formation of Metal Nanostructure Arrays with Ultrafine Gaps. Advanced Materials, 2016, 28, 9152-9162.	11.1	24
80	Non-fluorescent quantification of single mRNA with transient absorption microscopy. Nanoscale, 2016, 8, 19242-19248.	2.8	7
81	Epigenetic toxicity of trichloroethylene: a single-molecule perspective. Toxicology Research, 2016, 5, 641-650.	0.9	10
82	Optical Clearing Delivers Ultrasensitive Hyperspectral Dark-Field Imaging for Single-Cell Evaluation. ACS Nano, 2016, 10, 3132-3143.	7.3	52
83	Ultrasensitive detection of microbial cells using magnetic focus enhanced lateral flow sensors. Chemical Communications, 2016, 52, 4930-4933.	2.2	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.	1.7	21
85	Kinase phosphorylation monitoring with i-motif DNA cross-linked SERS probes. Chemical Communications, 2016, 52, 410-413.	2.2	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.	1.1	28
87	Optogenetic regulation of site-specific subtelomeric DNA-methylation. Oncotarget, 2016, 7, 50380-50391.	0.8	23
88	Regulatory landscape and clinical implication of MBD3 in human malignant glioma. Oncotarget, 2016, 7, 81698-81714.	0.8	7
89	Point-of-care test for cervical cancer in LMICs. Oncotarget, 2016, 7, 18787-18797.	0.8	16
90	Selective increase in subtelomeric DNA methylation: an epigenetic biomarker for malignant glioma. Clinical Epigenetics, 2015, 7, 107.	1.8	21

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91	Enhanced Multiphoton Emission from CdTe/ZnS Quantum Dots Decorated on Single-Layer Graphene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6331-6336.	1.5	24
92	Decitabine Nanoconjugate Sensitizes Human Glioblastoma Cells to Temozolomide. <i>Molecular Pharmaceutics</i> , 2015, 12, 1279-1288.	2.3	22
93	Modified graphene oxide sensors for ultra-sensitive detection of nitrate ions in water. <i>Talanta</i> , 2015, 143, 234-239.	2.9	40
94	Rapid and unbiased extraction of chromatin associated RNAs from purified native chromatin. <i>Journal of Chromatography A</i> , 2015, 1426, 64-68.	1.8	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. <i>Laser and Photonics Reviews</i> , 2015, 9, 120-127.	4.4	93
97	High performance immunochromatographic assay combined with surface enhanced Raman spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 209-214.	4.0	20
98	The hypomethylating agent Decitabine causes a paradoxical increase in 5-hydroxymethylcytosine in human leukemia cells. <i>Scientific Reports</i> , 2015, 5, 9281.	1.6	30
99	Rapid pathogen detection by lateral-flow immunochromatographic assay with gold nanoparticle-assisted enzyme signal amplification. <i>International Journal of Food Microbiology</i> , 2015, 206, 60-66.	2.1	95
100	Single-cell screening and quantification of transcripts in cancer tissues by second-harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 096016.	1.4	5
101	Single-Cell Quantification of Cytosine Modifications by Hyperspectral Dark-Field Imaging. <i>ACS Nano</i> , 2015, 9, 11924-11932.	7.3	54
102	Dissecting the behavior and function of MBD3 in DNA methylation homeostasis by single-molecule spectroscopy and microscopy. <i>Nucleic Acids Research</i> , 2015, 43, 3046-3055.	6.5	28
103	Cross-platform detection of epigenetic modifications from extracted chromatin in leucocytes from blood. <i>Analytical Chemistry Research</i> , 2015, 4, 39-44.	2.0	5
104	Graphene laminated gold bipyramids as sensitive detection platforms for antibiotic molecules. <i>Chemical Communications</i> , 2015, 51, 15494-15497.	2.2	55
105	Trichloroethylene sensing in water based on SERS with multifunctional Au/TiO ₂ core-shell nanocomposites. <i>Analyst</i> , The, 2015, 140, 6625-6630.	1.7	12
106	Water flattens graphene wrinkles: laser shock wrapping of graphene onto substrate-supported crystalline plasmonic nanoparticle arrays. <i>Nanoscale</i> , 2015, 7, 19885-19893.	2.8	41
107	A native chromatin extraction method based on salicylic acid coated magnetic nanoparticles and characterization of chromatin. <i>Analyst</i> , The, 2015, 140, 938-944.	1.7	10
108	Fourier transform infrared spectroscopy and near infrared spectroscopy for the quantification of defects in roasted coffees. <i>Talanta</i> , 2015, 134, 379-386.	2.9	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.	3.3	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.	5.3	100
111	Nanoscale histone localization in live cells reveals reduced chromatin mobility in response to DNA damage. Development (Cambridge), 2015, 142, e0407-e0407.	1.2	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.	1.2	18
113	Quantifying the local density of optical states of nanorods by fluorescence lifetime imaging. New Journal of Physics, 2014, 16, 063069.	1.2	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.	7.3	37
116	Effect of Δ DNA insertions on mRNA transcript copy numbers upstream and downstream of the insertion site in <i>Arabidopsis thaliana</i> explored by surface enhanced Raman spectroscopy. Plant Biotechnology Journal, 2014, 12, 568-577.	4.1	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.	5.3	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 nanopores. FEBS Letters, 2014, 588, 1637-1643.	1.3	18
120	Quantitative real-time kinetics of optogenetic proteins CRY2 and CIB1/N using single-molecule tools. Analytical Biochemistry, 2014, 458, 58-60.	1.1	9
121	Quantitative imaging of single mRNA splice variants in living cells. Nature Nanotechnology, 2014, 9, 474-480.	15.6	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.	3.3	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.	2.6	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.	6.6	59
125	Application of elastic net and infrared spectroscopy in the discrimination between defective and non-defective roasted coffees. Talanta, 2014, 128, 393-400.	2.9	54
126	Nano/Micro and Spectroscopic Approaches to Food Pathogen Detection. Annual Review of Analytical Chemistry, 2014, 7, 65-88.	2.8	42

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127	Targeted in vivo photodynamic therapy with epidermal growth factor receptor-specific peptide linked nanoparticles. <i>International Journal of Pharmaceutics</i> , 2014, 471, 421-429.	2.6	30
128	Diversity of two forms of DNA methylation in the brain. <i>Frontiers in Genetics</i> , 2014, 5, 46.	1.1	63
129	Lateral-flow enzyme immunoconcentration for rapid detection of <i>Listeria monocytogenes</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3313-3319.	1.9	89
130	One-stop genomic DNA extraction by salicylic acid-coated magnetic nanoparticles. <i>Analytical Biochemistry</i> , 2013, 442, 249-252.	1.1	31
131	In-situ immuno-gold nanoparticle network ELISA biosensors for pathogen detection. <i>International Journal of Food Microbiology</i> , 2013, 164, 70-75.	2.1	136
132	A hybrid FLIM-elastic net platform for label free profiling of breast cancer. <i>Analyst, The</i> , 2013, 138, 7127.	1.7	13
133	Fluorescence Lifetime Imaging of Biosensor Peptide Phosphorylation in Single Live Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3931-3934.	7.2	43
134	Surface-Enhanced Raman Spectroscopy Applied to Food Safety. <i>Annual Review of Food Science and Technology</i> , 2013, 4, 369-380.	5.1	305
135	Nanostructured thin films as surface-enhanced Raman scattering substrates. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 35-40.	1.2	12
136	Broadband enhancement of spontaneous emission from nitrogen-vacancy centers in nanodiamonds by hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2013, 102, 173114.	1.5	68
137	Correct Spectral Conversion between Surface-Enhanced Raman and Plasmon Resonance Scattering from Nanoparticle Dimers for Single-Molecule Detection. <i>Small</i> , 2013, 9, 1106-1115.	5.2	38
138	Probing site-exclusive binding of aqueous QDs and their organelle-dependent dynamics in live cells by single molecule spectroscopy. <i>Analyst, The</i> , 2013, 138, 2871.	1.7	9
139	Second harmonic generation correlation spectroscopy for single molecule experiments. <i>Optics Express</i> , 2013, 21, 27063.	1.7	12
140	Differentiation of cancer cells in two-dimensional and three-dimensional breast cancer models by Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 117008.	1.4	11
141	Surface-enhanced Raman spectroscopy at single-molecule scale and its implications in biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120026.	1.8	96
142	Real-time dynamics of methyl-CpG-binding domain protein 3 and its role in DNA demethylation by fluorescence correlation spectroscopy. <i>Epigenetics</i> , 2013, 8, 1089-1100.	1.3	23
143	Gene Expression Analysis Using Conventional and Imaging Methods. , 2013, , 141-162.		2
144	Single Molecule Tools Elucidate H2A.Z Nucleosome Composition. <i>Journal of Cell Science</i> , 2012, 125, 2954-64.	1.2	39

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145	Opto-electrokinetic manipulation for high-performance on-chip bioassays. <i>Lab on A Chip</i> , 2012, 12, 4955.	3.1	32
146	Surface enhanced Raman spectroscopy (SERS) for the discrimination of <i>Arthrobacter</i> strains based on variations in cell surface composition. <i>Analyst</i> , 2012, 137, 4280.	1.7	34
147	Hydrodynamic Size-Dependent Cellular Uptake of Aqueous QDs Probed by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12125-12132.	1.2	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. <i>Analytica Chimica Acta</i> , 2012, 745, 1-9.	2.6	21
149	FTIR nanobiosensors for <i>Escherichia coli</i> detection. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 485-492.	1.5	36
150	Folic Acid Protected Silver Nanocarriers for Targeted Drug Delivery. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 751-759.	0.5	72
151	Multifunctional gold nanorod theragnostics probed by multi-photon imaging. <i>European Journal of Medicinal Chemistry</i> , 2012, 48, 330-337.	2.6	19
152	A SERS DNAzyme biosensor for lead ion detection. <i>Chemical Communications</i> , 2011, 47, 4394.	2.2	150
153	Raman Chemical Imaging of Chromate Reduction Sites in a Single Bacterium Using Intracellularly Grown Gold Nanoislands. <i>ACS Nano</i> , 2011, 5, 4729-4736.	7.3	34
154	DNA-Gold Nanoparticle Reversible Networks Grown on Cell Surface Marker Sites: Application in Diagnostics. <i>ACS Nano</i> , 2011, 5, 2109-2117.	7.3	137
155	Fluorescent Ag Clusters via a Protein-Directed Approach as a Hg(II) Ion Sensor. <i>Analytical Chemistry</i> , 2011, 83, 2883-2889.	3.2	400
156	Nuclear Targeting Dynamics of Gold Nanoclusters for Enhanced Therapy of HER2 ⁺ Breast Cancer. <i>ACS Nano</i> , 2011, 5, 9718-9725.	7.3	246
157	Protein-directed reduction of graphene oxide and intracellular imaging. <i>Chemical Communications</i> , 2011, 47, 12658.	2.2	60
158	Gold nanoprobe for theranostics. <i>Nanomedicine</i> , 2011, 6, 1787-1811.	1.7	51
159	Single Molecule In Vivo Analysis of Toll-Like Receptor 9 and CpG DNA Interaction. <i>PLoS ONE</i> , 2011, 6, e17991.	1.1	31
160	Innovative Composite Films of Chitosan, Methylcellulose, and Nanoparticles. <i>Journal of Food Science</i> , 2011, 76, N54-60.	1.5	21
161	Separation and detection of multiple pathogens in a food matrix by magnetic SERS nanoprobe. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1271-1278.	1.9	153
162	Quantification of receptor targeting aptamer binding characteristics using single-molecule spectroscopy. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1222-1227.	1.7	10

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163	SERS driven cross-platform based multiplex pathogen detection. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 183-190.	4.0	75
164	Surface-Enhanced Raman Imaging of Intracellular Bioreduction of Chromate in <i>Shewanella oneidensis</i> . <i>PLoS ONE</i> , 2011, 6, e16634.	1.1	31
165	Biocompatibility and Biodistribution of Surface-Enhanced Raman Scattering Nanoprobes in Zebrafish Embryos: <i>In vivo</i> and Multiplex Imaging. <i>ACS Nano</i> , 2010, 4, 4039-4053.	7.3	128
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