

Jerome P Ferrance

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.

72
papers

3,474
citations

28
h-index

58
g-index

83
ext. papers

3,713
ext. citations

4.9
avg, IF

4.68
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 72 | Sub-terahertz vibrational spectroscopy for microRNA based diagnostic of ovarian cancer. <i>Convergent Science Physical Oncology</i> , 2016 , 2, 045001 | | 5 |
| 71 | Liquid chromatography-mass spectrometry interface for detection of extraterrestrial organics 2014 | | 2 |
| 70 | Enhanced recovery of spermatozoa and comprehensive lysis of epithelial cells from sexual assault samples having a low cell counts or aged up to one year. <i>Forensic Science International: Genetics</i> , 2014 , 8, 84-9 | 4.3 | 14 |
| 69 | Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. <i>IEEE Sensors Journal</i> , 2013 , 13, 72-79 | 4 | 18 |
| 68 | Sub-terahertz resonance spectroscopy of biological macromolecules and cells 2013 , | | 2 |
| 67 | Organics Analyzer for Sampling Icy Surfaces: A liquid chromatograph-mass spectrometer for future in situ small body missions 2013 , | | 4 |
| 66 | Solid phase extraction of DNA from biological samples in a post-based, high surface area poly(methyl methacrylate) (PMMA) microdevice. <i>Lab on A Chip</i> , 2011 , 11, 1603-11 | 7.2 | 59 |
| 65 | Single-walled Carbon Nanotube Strings for Biosensor Development. <i>Electroanalysis</i> , 2011 , 23, 2906-2914 | | 4 |
| 64 | Microchip extraction of catecholamines using a boronic acid functional affinity monolith. <i>Analytica Chimica Acta</i> , 2011 , 690, 94-100 | 6.6 | 43 |
| 63 | Photo-Induced Current Changes in Carbon Nanotube Films Incorporating CdSe Nanocrystals. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 102-110 | 1.3 | 3 |
| 62 | Characterization of dynamic solid phase DNA extraction from blood with magnetically controlled silica beads. <i>Analyst, The</i> , 2010 , 135, 531-7 | 5 | 37 |
| 61 | Dual-domain microchip-based process for volume reduction solid phase extraction of nucleic acids from dilute, large volume biological samples. <i>Analytical Chemistry</i> , 2010 , 82, 5669-78 | 7.8 | 31 |
| 60 | Integration of a precolumn fluorogenic reaction, separation, and detection of reduced glutathione. <i>Analytical Chemistry</i> , 2010 , 82, 7267-73 | 7.8 | 20 |
| 59 | An integrated microfluidic device for DNA purification and PCR amplification of STR fragments. <i>Forensic Science International: Genetics</i> , 2010 , 4, 178-86 | 4.3 | 70 |
| 58 | A simple method for the evaluation of microfluidic architecture using flow quantitation via a multiplexed fluidic resistance measurement. <i>Lab on A Chip</i> , 2010 , 10, 1960-6 | 7.2 | 7 |
| 57 | Development of a micro-total analysis system (µTAS) for the determination of catecholamines. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1909-17 | 4.4 | 21 |
| 56 | Solvent effects on the electrical and optical properties of composite carbon nanotube/MEH-PPV films. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 405-415 | 2.3 | 5 |

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|----|---|-----|----|
| 55 | An automated micro-solid phase extraction device involving integrated high-pressure microvalves for genetic sample preparation. <i>Biomedical Microdevices</i> , 2009 , 11, 935-42 | 3.7 | 18 |
| 54 | Genotyping of alpha-thalassemia deletions using multiplex polymerase chain reactions and gold nanoparticle-filled capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009 , 1216, 1206-12 | 4.5 | 20 |
| 53 | Chitosan-coated silica as a solid phase for RNA purification in a microfluidic device. <i>Analytical Chemistry</i> , 2009 , 81, 5249-56 | 7.8 | 66 |
| 52 | Single nucleotide polymorphism detection in the hMSH2 gene using conformation-sensitive CE. <i>Electrophoresis</i> , 2008 , 29, 634-40 | 3.6 | 6 |
| 51 | Quantification of SMN1 and SMN2 genes by capillary electrophoresis for diagnosis of spinal muscular atrophy. <i>Electrophoresis</i> , 2008 , 29, 2904-11 | 3.6 | 23 |
| 50 | Protein determination by microchip capillary electrophoresis using an asymmetric squarylium dye: noncovalent labeling and nonequilibrium measurement of association constants. <i>Electrophoresis</i> , 2008 , 29, 3446-55 | 3.6 | 18 |
| 49 | Towards an integrated microfluidic device for spaceflight clinical diagnostics Microchip-based solid-phase extraction of hydroxyl radical markers. <i>Journal of Chromatography A</i> , 2008 , 1200, 198-203 | 4.5 | 14 |
| 48 | Microfluidic-based DNA purification in a two-stage, dual-phase microchip containing a reversed-phase and a photopolymerized monolith. <i>Analytical Chemistry</i> , 2007 , 79, 6135-42 | 7.8 | 71 |
| 47 | A low-cost, low-power consumption, miniature laser-induced fluorescence system for DNA detection on a microfluidic device. <i>Clinics in Laboratory Medicine</i> , 2007 , 27, 173-81 | 2.1 | 14 |
| 46 | On-line sample stacking and short-end injection CE for the determination of fluoxetine and norfluoxetine in plasma: Method development and validation using experimental designs. <i>Electrophoresis</i> , 2007 , 28, 3290-5 | 3.6 | 21 |
| 45 | Gellan beads as a transparent media for protein immobilization and affinity capture. <i>Journal of Chromatography A</i> , 2007 , 1165, 86-92 | 4.5 | 17 |
| 44 | Microfluidic chip-based protein capture from human whole blood using octadecyl (C18) silica beads for nucleic acid analysis from large volume samples. <i>Journal of Chromatography A</i> , 2007 , 1171, 29-36 | 4.5 | 26 |
| 43 | Expedited, chemically enhanced sperm cell recovery from cotton swabs for rape kit analysis. <i>Journal of Forensic Sciences</i> , 2007 , 52, 800-5 | 1.8 | 30 |
| 42 | An active microfluidic system packaging technology. <i>Sensors and Actuators B: Chemical</i> , 2007 , 122, 337-346 | 3.6 | 20 |
| 41 | A microchip sensor for calcium determination. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1303-124.4 | 4.5 | 26 |
| 40 | Method for determining intracapillary solution temperatures: application to sample zone heating for enhanced fluorescent labeling of proteins. <i>Electrophoresis</i> , 2006 , 27, 1355-62 | 3.6 | 6 |
| 39 | Rapid DNA amplification in glass microdevices. <i>Methods in Molecular Biology</i> , 2006 , 339, 217-32 | 1.4 | 2 |
| 38 | A Low-Cost, Low-Power, Consumption Miniature Laser-Induced Fluorescence System for DNA Detection on a Microfluidic Device. <i>Journal of the Association for Laboratory Automation</i> , 2006 , 11, 254-259 | 3.6 | 6 |

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|----|---|------|-----|
| 37 | A fully integrated microfluidic genetic analysis system with sample-in-answer-out capability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19272-7 | 11.5 | 471 |
| 36 | Microchip-based macroporous silica sol-gel monolith for efficient isolation of DNA from clinical samples. <i>Analytical Chemistry</i> , 2006 , 78, 5704-10 | 7.8 | 94 |
| 35 | Chitosan as a polymer for pH-induced DNA capture in a totally aqueous system. <i>Analytical Chemistry</i> , 2006 , 78, 7222-8 | 7.8 | 125 |
| 34 | A simple, valveless microfluidic sample preparation device for extraction and amplification of DNA from nanoliter-volume samples. <i>Analytical Chemistry</i> , 2006 , 78, 1444-51 | 7.8 | 144 |
| 33 | Quenching of the electrochemiluminescence of tris(2,2',6,6'-tetrakis(bipyridine)ruthenium(II) by ferrocene and its potential application to quantitative DNA detection. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7572-8 | 16.4 | 187 |
| 32 | DNA extraction using a tetramethyl orthosilicate-grafted photopolymerized monolithic solid phase. <i>Analytical Chemistry</i> , 2006 , 78, 1673-81 | 7.8 | 62 |
| 31 | Microchip-based cell lysis and DNA extraction from sperm cells for application to forensic analysis. <i>Journal of Forensic Sciences</i> , 2006 , 51, 266-73 | 1.8 | 86 |
| 30 | Enhanced elution of sperm from cotton swabs via enzymatic digestion for rape kit analysis. <i>Journal of Forensic Sciences</i> , 2006 , 51, 574-9 | 1.8 | 22 |
| 29 | Protein digestion and phosphopeptide enrichment on a glass microchip. <i>Analytica Chimica Acta</i> , 2006 , 564, 116-22 | 6.6 | 31 |
| 28 | Extraction of C-reactive protein from serum on a microfluidic chip. <i>Analytica Chimica Acta</i> , 2006 , 569, 195-202 | 6.6 | 13 |
| 27 | Use of a capillary electrophoresis instrument with laser-induced fluorescence detection for DNA quantitation. Comparison of YO-PRO-1 and PicoGreen assays. <i>Journal of Chromatography A</i> , 2006 , 1113, 239-43 | 4.5 | 11 |
| 26 | Glass microfluidic devices with thin membrane voltage junctions for electrospray mass spectrometry. <i>Lab on A Chip</i> , 2005 , 5, 619-27 | 7.2 | 35 |
| 25 | Pressure injection on a valved microdevice for electrophoretic analysis of submicroliter samples. <i>Analytical Chemistry</i> , 2005 , 77, 3637-43 | 7.8 | 50 |
| 24 | Extrinsic Fabry-Perot interferometry for noncontact temperature control of nanoliter-volume enzymatic reactions in glass microchips. <i>Analytical Chemistry</i> , 2005 , 77, 1038-45 | 7.8 | 28 |
| 23 | Separation of sperm and epithelial cells in a microfabricated device: potential application to forensic analysis of sexual assault evidence. <i>Analytical Chemistry</i> , 2005 , 77, 742-9 | 7.8 | 77 |
| 22 | The performance of a microchip-based fiber optic detection technique for the determination of Ca ²⁺ ions in urine. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 24-31 | 8.5 | 28 |
| 21 | Evaluation of Sieving Polymers for Fast, Reproducible Electrophoretic Analysis of Short Tandem Repeats (STR) in Capillaries. <i>Journal of Forensic Sciences</i> , 2005 , 50, 1-7 | 1.8 | 3 |
| 20 | Microchip laser-induced fluorescence detection of proteins at submicrogram per milliliter levels mediated by dynamic labeling under pseudonative conditions. <i>Analytical Chemistry</i> , 2004 , 76, 4705-14 | 7.8 | 32 |

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|----|--|-----|-----|
| 19 | The design and testing of a silica sol-gel-based hybridization array. <i>Journal of Non-Crystalline Solids</i> , 2004 , 350, 39-45 | 3.9 | 7 |
| 18 | Towards a microchip-based chromatographic platform. Part 2: sol-gel phases modified with polyelectrolyte multilayers for capillary electrochromatography. <i>Electrophoresis</i> , 2003 , 24, 1261-70 | 3.6 | 22 |
| 17 | Developments toward a complete micro-total analysis system for Duchenne muscular dystrophy diagnosis. <i>Analytica Chimica Acta</i> , 2003 , 500, 223-236 | 6.6 | 71 |
| 16 | Capillary electrophoresis with laser-induced fluorescence detection for laboratory diagnosis of galactosemia. <i>Journal of Chromatography A</i> , 2003 , 1004, 29-37 | 4.5 | 20 |
| 15 | Microchip-based purification of DNA from biological samples. <i>Analytical Chemistry</i> , 2003 , 75, 1880-6 | 7.8 | 297 |
| 14 | A microchip-based proteolytic digestion system driven by electroosmotic pumping. <i>Lab on A Chip</i> , 2003 , 3, 11-8 | 7.2 | 136 |
| 13 | Toward a microchip-based solid-phase extraction method for isolation of nucleic acids. <i>Electrophoresis</i> , 2002 , 23, 727-33 | 3.6 | 209 |
| 12 | Evaluation of Microchip Electrophoresis as a Molecular Diagnostic Method for Duchenne Muscular Dystrophy. <i>Clinical Chemistry</i> , 2002 , 48, 380-383 | 5.5 | 16 |
| 11 | Evaluation of microchip electrophoresis as a molecular diagnostic method for Duchenne muscular dystrophy. <i>Clinical Chemistry</i> , 2002 , 48, 380-3 | 5.5 | 2 |
| 10 | Polymerase chain reaction in polymeric microchips: DNA amplification in less than 240 seconds. <i>Analytical Biochemistry</i> , 2001 , 291, 124-32 | 3.1 | 239 |
| 9 | Exploiting sensitive laser-induced fluorescence detection on electrophoretic microchips for executing rapid clinical diagnostics. <i>Luminescence</i> , 2001 , 16, 79-88 | 2.5 | 17 |
| 8 | An Innovative Separation Platform: Electrophoretic Microchip Technology. <i>Separation Science and Technology</i> , 2001 , 3, 529-554 | 1.7 | |
| 7 | Toward effective PCR-based amplification of DNA on microfabricated chips. <i>Methods in Molecular Biology</i> , 2001 , 163, 191-204 | 1.4 | 1 |
| 6 | Miniaturized electrophoresis: an evolving role in laboratory medicine. <i>BioTechniques</i> , 2001 , 31, 1332-5, 1338-1340, 1342, passim | 2.5 | 35 |
| 5 | Insect cell physiology. <i>Cytotechnology</i> , 1997 , 24, 1-9 | 2.2 | 9 |
| 4 | Insect cell physiology. <i>Current Applications of Cell Culture Engineering</i> , 1996 , 33-41 | | |
| 3 | Insect cell physiology. <i>Cytotechnology</i> , 1996 , 20, 33-41 | 2.2 | 5 |
| 2 | Analysis of metabolic fluxes in batch and continuous cultures of <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 1993 , 42, 686-96 | 4.9 | 65 |

- 1 Utilization of glucose and amino acids in insect cell cultures: Quantifying the metabolic flows within the primary pathways and medium development. *Biotechnology and Bioengineering*, **1993**, 42, 697-707 4.9 74