Dimitri Pappas

List of Publications by Citations

94 papers	1,442 citations	22 h-index	33 g-index
96 ext. papers	1,638 ext. citations	4.7 avg, IF	4.99 L-index

#	Paper	IF	Citations
94	Cellular separations: a review of new challenges in analytical chemistry. *Analytica Chimica Acta*, **2007**, 601, 26-35	6.6	83
93	Raman spectroscopy in bioanalysis. *Talanta*, **2000**, 51, 131-44	6.2	83
92	Detection of apoptosis: A review of conventional and novel techniques. *Analytical Methods*, **2010**, 2, 996	3.2	78
91	A review of chemical gradient systems for cell analysis. *Analytica Chimica Acta*, **2016**, 907, 7-17	6.6	69
90	Novel uses of lasers in atomic spectroscopy. Plenary Lecture. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 1161-1189	3.7	69
89	Fluorescence correlation spectroscopy: a review of biochemical and microfluidic applications. *Applied Spectroscopy*, **2011**, 65, 115A-124A	3.1	57
88	Ischemia/reperfusion injury of primary porcine cardiomyocytes in a low-shear microfluidic culture and analysis device. *Analyst, The*, **2011**, 136, 3519-26	5	57
87	Recent advances in microfluidic cell separations. *Analyst, The*, **2013**, 138, 4714-21	5	56
86	Cell culture chip using low-shear mass transport. *Langmuir*, **2008**, 24, 5955-60	4	46
85	Open-tubular capillary cell affinity chromatography: single and tandem blood cell separation. *Analytical Chemistry*, **2008**, 80, 2118-24	7.8	39
84	Rubidium isotope measurements in solid samples by laser ablation-laser atomic absorption spectroscopy. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1999**, 54, 1771-1781	3.1	33
83	Synthesis and Antineoplastic Evaluation of Mitochondrial Complex II (Succinate Dehydrogenase) Inhibitors Derived from Atpenin A5. *ChemMedChem*, **2017**, 12, 1033-1044	3.7	27
82	A microfluidic localized, multiple cell culture array using vacuum actuated cell seeding: integrated anticancer drug testing. *Biomedical Microdevices*, **2013**, 15, 907-15	3.7	27
81	Microfluidics and cancer analysis: cell separation, cell/tissue culture, cell mechanics, and integrated analysis systems. *Analyst, The*, **2016**, 141, 525-35	5	26
80	Isolation and counting of multiple cell types using an affinity separation device. *Analytica Chimica Acta*, **2007**, 601, 1-9	6.6	26
79	Detection of sepsis in patient blood samples using CD64 expression in a microfluidic cell separation device. *Analyst, The*, **2017**, 143, 241-249	5	25
78	Multiparameter cell affinity chromatography: separation and analysis in a single microfluidic channel. *Analytical Chemistry*, **2012**, 84, 8140-8	7.8	24

77	Negative enrichment of target cells by microfluidic affinity chromatography. *Analytical Chemistry*, **2011**, 83, 7863-9	7.8	24
76	Probing hypoxia-induced staurosporine resistance in prostate cancer cells with a microfluidic culture system. *Analyst, The*, **2014**, 139, 3274-80	5	23
75	Comparison of inlet geometry in microfluidic cell affinity chromatography. *Analytical Chemistry*, **2011**, 83, 774-81	7.8	23
74	Early detection of apoptosis in living cells by fluorescence correlation spectroscopy. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 1177-85	4.4	23
73	Microfluidic Separation of Lymphoblasts for the Isolation of Acute Lymphoblastic Leukemia Using the Human Transferrin Receptor as a Capture Target. *Analytical Chemistry*, **2017**, 89, 7340-7347	7.8	22
72	Mapping vortex-like hydrodynamic flow in microfluidic networks using fluorescence correlation spectroscopy. *Analytica Chimica Acta*, **2009**, 651, 85-90	6.6	19
71	A Review of Fluorescent Carbon Dots, Their Synthesis, Physical and Chemical Characteristics, and Applications. *Nanomaterials*, **2021**, 11,	5.4	18
70	Multiparameter Affinity Microchip for Early Sepsis Diagnosis Based on CD64 and CD69 Expression and Cell Capture. *Analytical Chemistry*, **2018**, 90, 7204-7211	7.8	18
69	Simultaneous cell capture and induction of apoptosis using an anti-CD95 affinity microdevice. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 787-95	4.4	17
68	Exploring biomolecular interactions by single-molecule fluorescence. *TrAC - Trends in Analytical Chemistry*, **2007**, 26, 884-894	14.6	16
67	Observation of reversible, rapid changes in drug susceptibility of hypoxic tumor cells in a microfluidic device. *Analytica Chimica Acta*, **2016**, 936, 179-84	6.6	15
66	Enhanced capture and release of circulating tumor cells using hollow glass microspheres with a nanostructured surface. *Nanoscale*, **2018**, 10, 16795-16804	7.7	15
65	Spatially selective reagent delivery into cancer cells using a two-layer microfluidic culture system. *Analytica Chimica Acta*, **2012**, 743, 125-30	6.6	15
64	A cesium resonance fluorescence imaging monochromator. *Optics Communications*, **2001**, 191, 263-269	2	15
63	**2010**,		15
62	On-chip gradient generation in 256 microfluidic cell cultures: simulation and experimental validation. *Analyst, The*, **2015**, 140, 5029-38	5	13
61	The effects of flow type on aptamer capture in differential mobility cytometry cell separations. *Analytica Chimica Acta*, **2010**, 673, 95-100	6.6	13
60	Microfluidic cell surface antigen expression analysis using a single antibody type. *Analyst, The*, **2016**, 141, 1440-7	5	12

59	Generation of a chemical gradient across an array of 256 cell cultures in a single chip. *Analyst, The*, **2013**, 138, 5566-71	5	12
58	A complementary method to CD4 counting: measurement of CD4+/CD8+ T lymphocyte ratio in a tandem affinity microfluidic system. *Biomedical Microdevices*, **2015**, 17, 113	3.7	12
57	Investigation of photobleaching and saturation of single molecules by fluorophore recrossing events. *Analytica Chimica Acta*, **2007**, 598, 135-42	6.6	12
56	Tunable resonance fluorescence monochromator with sub-Doppler spectral resolution. *Optics Letters*, **2001**, 26, 1946-8	3	12
55	Combined CD25, CD64, and CD69 biomarker panel for flow cytometry diagnosis of sepsis. *Talanta*, **2019**, 191, 216-221	6.2	12
54	Fundamentals of affinity cell separations. *Electrophoresis*, **2018**, 39, 732-741	3.6	11
53	Temporal dynamics of receptor-induced apoptosis in an affinity microdevice. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 3387-96	4.4	11
52	Evaluation of the paratrend multi-analyte sensor for potential utilization in long-duration automated cell culture monitoring. *Biomedical Microdevices*, **2004**, 6, 241-9	3.7	11
51	Detection of culture-negative sepsis in clinical blood samples using a microfluidic assay for combined CD64 and CD69 cell capture. *Analytica Chimica Acta*, **2019**, 1062, 110-117	6.6	10
50	Single molecule fluorescence correlation spectroscopy of single apoptotic cells using a red-fluorescent caspase probe. *Analyst, The*, **2012**, 137, 2997-3003	5	10
49	Raman imaging for two-dimensional chemical analysis. *Applied Spectroscopy Reviews*, **2004**, 35, 1-23	4.5	10
48	Sealed-cell mercury resonance ionization imaging detector. *Applied Optics*, **2000**, 39, 4911-7	1.7	10
47	Nanoparticle modification of microfluidic cell separation for cancer cell detection and isolation. *Analyst, The*, **2019**, 145, 257-267	5	10
46	The effect of protein expression on cancer cell capture using the Human Transferrin Receptor (CD71) as an affinity ligand. *Analytica Chimica Acta*, **2019**, 1076, 154-161	6.6	9
45	Differential mobility cytometry. *Analytical Chemistry*, **2009**, 81, 3334-43	7.8	9
44	Sub-Doppler Spectral Resolution and Improved Sensitivity in a Cesium Resonance Fluorescence Imaging Monochromator. *Applied Spectroscopy*, **2002**, 56, 677-681	3.1	9
43	Facile Functionalization of Ag@SiO Core-Shell Metal Enhanced Fluorescence Nanoparticles for Cell Labeling. *Analytical Methods*, **2014**, 6, 1598-1602	3.2	8
42	Measuring complexation by single-molecule fluorescence anisotropy. *Analyst, The*, **2008**, 133, 870-3	5	8

41	Affinity separation and subsequent terminal differentiation of acute myeloid leukemia cells using the human transferrin receptor (CD71) as a capture target. *Analyst, The*, **2019**, 144, 3369-3380	5	7
40	Self-assembly of reversed bilayer vesicles through pnictogen bonding: water-stable supramolecular nanocontainers for organic solvents. *Chemical Science*, **2020**, 11, 4374-4380	9.4	7
39	Characterization of PDMS-modified glass from cast-and-peel fabrication. *Talanta*, **2009**, 79, 333-8	6.2	7
38	Diffusion of resonance radiation in atomic vapor imaging. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2001**, 56, 1761-1767	3.1	7
37	High temporal resolution fluorescence measurements of a mitochondrial dye for detection of early stage apoptosis. *Analyst, The*, **2013**, 138, 4892-7	5	6
36	Synthesis of a red fluorescent dye-conjugated Ag@SiO2 nanocomposite for cell immunofluorescence. *Applied Spectroscopy*, **2015**, 69, 215-21	3.1	6
35	Microfluidic antibody arrays for simultaneous cell separation and stimulus. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7867-73	4.4	6
34	Light tolerance of R-phycoerythrin and a tandem conjugate observed by single molecule recrossing events. *Applied Spectroscopy*, **2009**, 63, 709-15	3.1	6
33	Moving object detection using a cesium resonance fluorescence monochromator. *Optics Communications*, **2003**, 219, 27-31	2	5
32	Evaluating the Timeliness and Specificity of CD69, CD64, and CD25 as Biomarkers of Sepsis in Mice. *Shock*, **2021**, 55, 507-518	3.4	5
31	A fluorescence toolbox: A review of investigation of electrophoretic separations, process, and interfaces. *Electrophoresis*, **2019**, 40, 606-615	3.6	5
30	Isolation of proliferating cells from whole blood using Human Transferrin Receptor in a two-stage separation system. *Talanta*, **2019**, 204, 731-738	6.2	4
29	Formation of a Cesium Plasma by Continuous-Wave Resonance Excitation. *Applied Spectroscopy*, **2000**, 54, 1245-1249	3.1	4
28	Modulation and study of photoblinking behavior in dye doped silver-silica core-shell nanoparticles for localization super-resolution microscopy. *Nanotechnology*, **2019**, 30, 455704	3.4	3
27	Energy transfer and light tolerance studies in a fluorescent tandem phycobiliprotein conjugate. *Applied Spectroscopy*, **2011**, 65, 991-5	3.1	3
26	Investigation of saturation and photobleaching of allophycocyanin by single-molecule recrossing events. *Applied Spectroscopy*, **2010**, 64, 324-7	3.1	3
25	Detection of Mie Scattering Using a Resonance Fluorescence Monochromator. *Applied Spectroscopy* , **2002**, 56, 1237-1240	3.1	3
24	Fluorescence monitoring of laser induced population changes of 6P and 6D levels in cesium vapor. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2000**, 55, 1503-1509	3.1	3

23	Detection of apoptosis using fluorescent probes. *Methods in Molecular Biology*, **2015**, 1292, 151-61	1.4	3
22	Ten Years after the Texas Tech Accident. Part II: Changing Safety Cultures and the Current State of Academic Laboratory Safety at Texas Tech University. *Journal of Chemical Health and Safety*, **2020**, 27, 150-159	1.7	2
21	Core Size does not Affect Blinking Behavior of Dye-Doped Ag@SiO Core-Shell Nanoparticles for Super-Resolution Microscopy.. *RSC Advances*, **2020**, 10, 8735-8743	3.7	2
20	Rapid data analysis method for differential mobility cytometry. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 2411-3	4.4	2
19	Comparison of methods to classify and quantify free and bound states of complexes using single molecule fluorescence anisotropy. *Analyst, The*, **2009**, 134, 1911-21	5	2
18	Cell affinity separations on microfluidic devices. *Methods in Molecular Biology*, **2015**, 1286, 55-65	1.4	2
17	Tandem microfluidic chip isolation of prostate and breast cancer cells from simulated liquid biopsies using CD71 as an affinity ligand.. *RSC Advances*, **2020**, 10, 32628-32637	3.7	2
16	Microfluidics for sepsis early diagnosis and prognosis: a review of recent methods. *Analyst, The*, **2021**, 146, 2110-2125	5	2
15	Single-Cell Hypoxia: Current Analytical Techniques and Future Opportunities **2016**, 1-20		1
14	The Cell-Culture Laboratory (Tools of the Trade)35-63		1
13	Microscopy of Cells89-123		1
12	Flow Cytometry: Cell Analysis in the Fast Lane165-193		1
11	Protein-, polymer-, and silica-based luminescent nanomaterial probes for super resolution microscopy: a review. *Nanoscale Advances*, **2021**, 3, 1853-1864	5.1	1
10	Maintaining Cultures65-88		1
9	Separating Cells125-163		1
8	Protocols, Probes, and Standards247-285		1
7	A comparison of transferrin-receptor and epithelial cellular adhesion molecule targeting for microfluidic separation of cancer cells. *Biomedical Microdevices*, **2021**, 23, 28	3.7	0
6	Apoptosis (Programed Cell Death) Studied by Fluorescence Spectroscopy **2000**, 1-15		

5	Apoptosis (Programmed Cell Death) Studied by Fluorescence Spectroscopy1-15	
4	Microfluidic Chips for Sepsis Diagnosis. *Methods in Molecular Biology*, **2021**, 2321, 207-219	1.4
3	Getting Started (and Getting the Cells)1-34	
2	Analyzing Cells with Microfluidic Devices195-228	
1	Statistical Considerations229-246	