

# Dimitri Pappas

## 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.

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	Evaluating the Timeliness and Specificity of CD69, CD64, and CD25 as Biomarkers of Sepsis in Mice. <i>Shock</i> , <b>2021</b> , 55, 507-518	3.4	5
93	A comparison of transferrin-receptor and epithelial cellular adhesion molecule targeting for microfluidic separation of cancer cells. <i>Biomedical Microdevices</i> , <b>2021</b> , 23, 28	3.7	0
92	A Review of Fluorescent Carbon Dots, Their Synthesis, Physical and Chemical Characteristics, and Applications. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	18
91	Microfluidic Chips for Sepsis Diagnosis. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2321, 207-219	1.4	
90	Microfluidics for sepsis early diagnosis and prognosis: a review of recent methods. <i>Analyst, The</i> , <b>2021</b> , 146, 2110-2125	5	2
89	Protein-, polymer-, and silica-based luminescent nanomaterial probes for super resolution microscopy: a review. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1853-1864	5.1	1
88	Ten Years after the Texas Tech Accident. Part II: Changing Safety Cultures and the Current State of Academic Laboratory Safety at Texas Tech University. <i>Journal of Chemical Health and Safety</i> , <b>2020</b> , 27, 150-159	1.7	2
87	Core Size does not Affect Blinking Behavior of Dye-Doped Ag@SiO Core-Shell Nanoparticles for Super-Resolution Microscopy.. <i>RSC Advances</i> , <b>2020</b> , 10, 8735-8743	3.7	2
86	Self-assembly of reversed bilayer vesicles through pnictogen bonding: water-stable supramolecular nanocontainers for organic solvents. <i>Chemical Science</i> , <b>2020</b> , 11, 4374-4380	9.4	7
85	Tandem microfluidic chip isolation of prostate and breast cancer cells from simulated liquid biopsies using CD71 as an affinity ligand.. <i>RSC Advances</i> , <b>2020</b> , 10, 32628-32637	3.7	2
84	Isolation of proliferating cells from whole blood using Human Transferrin Receptor in a two-stage separation system. <i>Talanta</i> , <b>2019</b> , 204, 731-738	6.2	4
83	The effect of protein expression on cancer cell capture using the Human Transferrin Receptor (CD71) as an affinity ligand. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1076, 154-161	6.6	9
82	Detection of culture-negative sepsis in clinical blood samples using a microfluidic assay for combined CD64 and CD69 cell capture. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1062, 110-117	6.6	10
81	Affinity separation and subsequent terminal differentiation of acute myeloid leukemia cells using the human transferrin receptor (CD71) as a capture target. <i>Analyst, The</i> , <b>2019</b> , 144, 3369-3380	5	7
80	Modulation and study of photoblinking behavior in dye doped silver-silica core-shell nanoparticles for localization super-resolution microscopy. <i>Nanotechnology</i> , <b>2019</b> , 30, 455704	3.4	3
79	Nanoparticle modification of microfluidic cell separation for cancer cell detection and isolation. <i>Analyst, The</i> , <b>2019</b> , 145, 257-267	5	10
78	Combined CD25, CD64, and CD69 biomarker panel for flow cytometry diagnosis of sepsis. <i>Talanta</i> , <b>2019</b> , 191, 216-221	6.2	12

77	A fluorescence toolbox: A review of investigation of electrophoretic separations, process, and interfaces. <i>Electrophoresis</i> , <b>2019</b> , 40, 606-615	3.6	5
76	Fundamentals of affinity cell separations. <i>Electrophoresis</i> , <b>2018</b> , 39, 732-741	3.6	11
75	Enhanced capture and release of circulating tumor cells using hollow glass microspheres with a nanostructured surface. <i>Nanoscale</i> , <b>2018</b> , 10, 16795-16804	7.7	15
74	Multiparameter Affinity Microchip for Early Sepsis Diagnosis Based on CD64 and CD69 Expression and Cell Capture. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7204-7211	7.8	18
73	Synthesis and Antineoplastic Evaluation of Mitochondrial Complex II (Succinate Dehydrogenase) Inhibitors Derived from Atpenin A5. <i>ChemMedChem</i> , <b>2017</b> , 12, 1033-1044	3.7	27
72	Microfluidic Separation of Lymphoblasts for the Isolation of Acute Lymphoblastic Leukemia Using the Human Transferrin Receptor as a Capture Target. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7340-7347	7.8	22
71	Detection of sepsis in patient blood samples using CD64 expression in a microfluidic cell separation device. <i>Analyst, The</i> , <b>2017</b> , 143, 241-249	5	25
70	Observation of reversible, rapid changes in drug susceptibility of hypoxic tumor cells in a microfluidic device. <i>Analytica Chimica Acta</i> , <b>2016</b> , 936, 179-84	6.6	15
69	Single-Cell Hypoxia: Current Analytical Techniques and Future Opportunities <b>2016</b> , 1-20		1
68	Microfluidic cell surface antigen expression analysis using a single antibody type. <i>Analyst, The</i> , <b>2016</b> , 141, 1440-7	5	12
67	A review of chemical gradient systems for cell analysis. <i>Analytica Chimica Acta</i> , <b>2016</b> , 907, 7-17	6.6	69
66	Microfluidics and cancer analysis: cell separation, cell/tissue culture, cell mechanics, and integrated analysis systems. <i>Analyst, The</i> , <b>2016</b> , 141, 525-35	5	26
65	Synthesis of a red fluorescent dye-conjugated Ag@SiO <sub>2</sub> nanocomposite for cell immunofluorescence. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 215-21	3.1	6
64	A complementary method to CD4 counting: measurement of CD4 <sup>+</sup> /CD8 <sup>+</sup> T lymphocyte ratio in a tandem affinity microfluidic system. <i>Biomedical Microdevices</i> , <b>2015</b> , 17, 113	3.7	12
63	On-chip gradient generation in 256 microfluidic cell cultures: simulation and experimental validation. <i>Analyst, The</i> , <b>2015</b> , 140, 5029-38	5	13
62	Cell affinity separations on microfluidic devices. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1286, 55-65	1.4	2
61	Detection of apoptosis using fluorescent probes. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1292, 151-61	1.4	3
60	Probing hypoxia-induced staurosporine resistance in prostate cancer cells with a microfluidic culture system. <i>Analyst, The</i> , <b>2014</b> , 139, 3274-80	5	23

59	Facile Functionalization of Ag@SiO Core-Shell Metal Enhanced Fluorescence Nanoparticles for Cell Labeling. <i>Analytical Methods</i> , <b>2014</b> , 6, 1598-1602	3.2	8
58	Microfluidic antibody arrays for simultaneous cell separation and stimulus. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 7867-73	4.4	6
57	A microfluidic localized, multiple cell culture array using vacuum actuated cell seeding: integrated anticancer drug testing. <i>Biomedical Microdevices</i> , <b>2013</b> , 15, 907-15	3.7	27
56	High temporal resolution fluorescence measurements of a mitochondrial dye for detection of early stage apoptosis. <i>Analyst, The</i> , <b>2013</b> , 138, 4892-7	5	6
55	Generation of a chemical gradient across an array of 256 cell cultures in a single chip. <i>Analyst, The</i> , <b>2013</b> , 138, 5566-71	5	12
54	Recent advances in microfluidic cell separations. <i>Analyst, The</i> , <b>2013</b> , 138, 4714-21	5	56
53	Spatially selective reagent delivery into cancer cells using a two-layer microfluidic culture system. <i>Analytica Chimica Acta</i> , <b>2012</b> , 743, 125-30	6.6	15
52	Multiparameter cell affinity chromatography: separation and analysis in a single microfluidic channel. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8140-8	7.8	24
51	Single molecule fluorescence correlation spectroscopy of single apoptotic cells using a red-fluorescent caspase probe. <i>Analyst, The</i> , <b>2012</b> , 137, 2997-3003	5	10
50	Fluorescence correlation spectroscopy: a review of biochemical and microfluidic applications. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 115A-124A	3.1	57
49	Energy transfer and light tolerance studies in a fluorescent tandem phycobiliprotein conjugate. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 991-5	3.1	3
48	Ischemia/reperfusion injury of primary porcine cardiomyocytes in a low-shear microfluidic culture and analysis device. <i>Analyst, The</i> , <b>2011</b> , 136, 3519-26	5	57
47	Comparison of inlet geometry in microfluidic cell affinity chromatography. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 774-81	7.8	23
46	Negative enrichment of target cells by microfluidic affinity chromatography. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7863-9	7.8	24
45	Investigation of saturation and photobleaching of allophycocyanin by single-molecule recrossing events. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 324-7	3.1	3
44	Detection of apoptosis: A review of conventional and novel techniques. <i>Analytical Methods</i> , <b>2010</b> , 2, 996	3.2	78
43	Early detection of apoptosis in living cells by fluorescence correlation spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 1177-85	4.4	23
42	Temporal dynamics of receptor-induced apoptosis in an affinity microdevice. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 3387-96	4.4	11

41	The effects of flow type on aptamer capture in differential mobility cytometry cell separations. <i>Analytica Chimica Acta</i> , <b>2010</b> , 673, 95-100	6.6	13
40	<b>2010</b> ,		15
39	Simultaneous cell capture and induction of apoptosis using an anti-CD95 affinity microdevice. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 787-95	4.4	17
38	Rapid data analysis method for differential mobility cytometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 2411-3	4.4	2
37	Mapping vortex-like hydrodynamic flow in microfluidic networks using fluorescence correlation spectroscopy. <i>Analytica Chimica Acta</i> , <b>2009</b> , 651, 85-90	6.6	19
36	Differential mobility cytometry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 3334-43	7.8	9
35	Characterization of PDMS-modified glass from cast-and-peel fabrication. <i>Talanta</i> , <b>2009</b> , 79, 333-8	6.2	7
34	Light tolerance of R-phycoerythrin and a tandem conjugate observed by single molecule recrossing events. <i>Applied Spectroscopy</i> , <b>2009</b> , 63, 709-15	3.1	6
33	Comparison of methods to classify and quantify free and bound states of complexes using single molecule fluorescence anisotropy. <i>Analyst, The</i> , <b>2009</b> , 134, 1911-21	5	2
32	Measuring complexation by single-molecule fluorescence anisotropy. <i>Analyst, The</i> , <b>2008</b> , 133, 870-3	5	8
31	Cell culture chip using low-shear mass transport. <i>Langmuir</i> , <b>2008</b> , 24, 5955-60	4	46
30	Open-tubular capillary cell affinity chromatography: single and tandem blood cell separation. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2118-24	7.8	39
29	Exploring biomolecular interactions by single-molecule fluorescence. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2007</b> , 26, 884-894	14.6	16
28	Investigation of photobleaching and saturation of single molecules by fluorophore recrossing events. <i>Analytica Chimica Acta</i> , <b>2007</b> , 598, 135-42	6.6	12
27	Isolation and counting of multiple cell types using an affinity separation device. <i>Analytica Chimica Acta</i> , <b>2007</b> , 601, 1-9	6.6	26
26	Cellular separations: a review of new challenges in analytical chemistry. <i>Analytica Chimica Acta</i> , <b>2007</b> , 601, 26-35	6.6	83
25	Evaluation of the paratrend multi-analyte sensor for potential utilization in long-duration automated cell culture monitoring. <i>Biomedical Microdevices</i> , <b>2004</b> , 6, 241-9	3.7	11
24	Raman imaging for two-dimensional chemical analysis. <i>Applied Spectroscopy Reviews</i> , <b>2004</b> , 35, 1-23	4.5	10

23	Moving object detection using a cesium resonance fluorescence monochromator. <i>Optics Communications</i> , <b>2003</b> , 219, 27-31	2	5
22	Sub-Doppler Spectral Resolution and Improved Sensitivity in a Cesium Resonance Fluorescence Imaging Monochromator. <i>Applied Spectroscopy</i> , <b>2002</b> , 56, 677-681	3.1	9
21	Detection of Mie Scattering Using a Resonance Fluorescence Monochromator. <i>Applied Spectroscopy</i> , <b>2002</b> , 56, 1237-1240	3.1	3
20	Diffusion of resonance radiation in atomic vapor imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2001</b> , 56, 1761-1767	3.1	7
19	A cesium resonance fluorescence imaging monochromator. <i>Optics Communications</i> , <b>2001</b> , 191, 263-269	2	15
18	Tunable resonance fluorescence monochromator with sub-Doppler spectral resolution. <i>Optics Letters</i> , <b>2001</b> , 26, 1946-8	3	12
17	Apoptosis (Programed Cell Death) Studied by Fluorescence Spectroscopy <b>2000</b> , 1-15		
16	Fluorescence monitoring of laser induced population changes of 6P and 6D levels in cesium vapor. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2000</b> , 55, 1503-1509	3.1	3
15	Sealed-cell mercury resonance ionization imaging detector. <i>Applied Optics</i> , <b>2000</b> , 39, 4911-7	1.7	10
14	Formation of a Cesium Plasma by Continuous-Wave Resonance Excitation. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1245-1249	3.1	4
13	Raman spectroscopy in bioanalysis. <i>Talanta</i> , <b>2000</b> , 51, 131-44	6.2	83
12	Novel uses of lasers in atomic spectroscopy. Plenary Lecture. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2000</b> , 15, 1161-1189	3.7	69
11	Rubidium isotope measurements in solid samples by laser ablation-laser atomic absorption spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1999</b> , 54, 1771-1781	3.1	33
10	Apoptosis (Programmed Cell Death) Studied by Fluorescence Spectroscopy1-15		
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