

Penelope C Ioannou

List of Publications by Year in descending order

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75
papers

1,916
citations

279487

23
h-index

276539

41
g-index

75
all docs

75
docs citations

75
times ranked

1901
citing authors

#	ARTICLE	IF	CITATIONS
1	Oligonucleotide-Functionalized Gold Nanoparticles as Probes in a Dry-Reagent Strip Biosensor for DNA Analysis by Hybridization. <i>Analytical Chemistry</i> , 2003, 75, 4155-4160.	3.2	196
2	Post-column terbium complexation and sensitized fluorescence detection for the determination of norepinephrine, epinephrine and dopamine using high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2002, 462, 179-185.	2.6	195
3	Nanoparticle-based DNA biosensor for visual detection of genetically modified organisms. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1069-1076.	5.3	94
4	Advances in molecular techniques for the detection and quantification of genetically modified organisms. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 347-354.	1.9	91
5	Application of terbium sensitized fluorescence for the determination of fluoroquinolone antibiotics pefloxacin, ciprofloxacin and norfloxacin in serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997, 15, 1839-1844.	1.4	85
6	Spectrofluorimetric determination of anthranilic acid derivatives based on terbium sensitized fluorescence. <i>Analyst, The</i> , 1998, 123, 2839-2843.	1.7	64
7	One-step purification and refolding of recombinant photoprotein aequorin by immobilized metal-ion affinity chromatography. <i>Protein Expression and Purification</i> , 2003, 27, 384-390.	0.6	60
8	Genotyping of Single-Nucleotide Polymorphisms by Primer Extension Reaction in a Dry-Reagent Dipstick Format. <i>Analytical Chemistry</i> , 2007, 79, 395-402.	3.2	60
9	Identification of Single-Nucleotide Polymorphisms by the Oligonucleotide Ligation Reaction: A DNA Biosensor for Simultaneous Visual Detection of Both Alleles. <i>Analytical Chemistry</i> , 2009, 81, 218-224.	3.2	51
10	Multianalyte, dipstick-type, nanoparticle-based DNA biosensor for visual genotyping of single-nucleotide polymorphisms. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3135-3139.	5.3	50
11	Dry reagent dipstick test combined with 23S rRNA PCR for molecular diagnosis of bacterial infection in arthroplasty. <i>Analytical Biochemistry</i> , 2007, 361, 169-175.	1.1	45
12	Lateral flow devices for nucleic acid analysis exploiting quantum dots as reporters. <i>Analytica Chimica Acta</i> , 2015, 864, 48-54.	2.6	44
13	Rapid analysis of genetically modified organisms by in-house developed capillary electrophoresis chip and laser-induced fluorescence system. <i>Electrophoresis</i> , 2004, 25, 922-930.	1.3	40
14	Enzyme-Amplified Aequorin-Based Bioluminometric Hybridization Assays. <i>Analytical Chemistry</i> , 2001, 73, 689-692.	3.2	35
15	Olive Oil DNA Fingerprinting by Multiplex SNP Genotyping on Fluorescent Microspheres. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 3121-3128.	2.4	33
16	High-Throughput Double Quantitative Competitive Polymerase Chain Reaction for Determination of Genetically Modified Organisms. <i>Analytical Chemistry</i> , 2005, 77, 4785-4791.	3.2	29
17	Dipstick-type biosensor for visual detection of DNA with oligonucleotide-decorated colored polystyrene microspheres as reporters. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1811-1815.	5.3	29
18	Second-derivative synchronous fluorescence spectroscopy for the simultaneous determination of naproxen and salicylic acid in human serum. <i>Analyst, The</i> , 1996, 121, 909.	1.7	28

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19	Carbon nano-strings as reporters in lateral flow devices for DNA sensing by hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1145-1152.	1.9	27
20	Dipstick Test for DNA-Based Food Authentication. Application to Coffee Authenticity Assessment. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 713-717.	2.4	27
21	Genotyping of single nucleotide polymorphisms by primer extension reaction and a dual-analyte bio/chemiluminometric assay. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1747-1754.	1.9	26
22	Photoprotein aequorin as a novel reporter for SNP genotyping by primer extension—application to the variants of mannose-binding lectin gene. <i>Human Mutation</i> , 2006, 27, 279-285.	1.1	25
23	Quadruple-Analyte Chemiluminometric Hybridization Assay. Application to Double Quantitative Competitive Polymerase Chain Reaction. <i>Analytical Chemistry</i> , 2007, 79, 9433-9440.	3.2	25
24	Multiplex Quantitative Competitive Polymerase Chain Reaction Based on a Multianalyte Hybridization Assay Performed on Spectrally Encoded Microspheres. <i>Analytical Chemistry</i> , 2007, 79, 6655-6661.	3.2	25
25	A simple and rapid fluorimetric method for the microdetermination of isonicotinic acid hydrazide. <i>Talanta</i> , 1987, 34, 857-860.	2.9	24
26	Simple spectrofluorometric determination of p-aminobenzoic and p-aminosalicylic acids in biological fluids by use of terbium-sensitized luminescence. <i>Clinical Chemistry</i> , 1996, 42, 1659-1665.	1.5	24
27	Digital camera and smartphone as detectors in paper-based chemiluminometric genotyping of single nucleotide polymorphisms. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7393-7402.	1.9	24
28	Two-Round Enzymatic Amplification Combined with Time-Resolved Fluorometry of Tb ³⁺ Chelates for Enhanced Sensitivity in DNA Hybridization Assays. <i>Analytical Chemistry</i> , 1998, 70, 698-702.	3.2	22
29	Affinity Capture-Facilitated Preparation of Aequorin ⁺ Oligonucleotide Conjugates for Rapid Hybridization Assays. <i>Bioconjugate Chemistry</i> , 2003, 14, 1024-1029.	1.8	22
30	Dry-reagent disposable dipstick test for visual screening of seven leukemia-related chromosomal translocations. <i>Nucleic Acids Research</i> , 2007, 35, e23-e23.	6.5	22
31	Simultaneous determination of acetylsalicylic and salicylic acids in human serum and aspirin formulations by second-derivative synchronous fluorescence spectrometry. <i>Analyst</i> , 1991, 116, 373.	1.7	21
32	High-Throughput Microtiter Well-Based Chemiluminometric Genotyping of 15 HBB Gene Mutations in a Dry-Reagent Format. <i>Clinical Chemistry</i> , 2007, 53, 384-391.	1.5	20
33	A nanoparticle-based sensor for visual detection of multiple mutations. <i>Nanotechnology</i> , 2011, 22, 155501.	1.3	20
34	Development of a three-biosensor panel for the visual detection of thrombophilia-associated mutations. <i>Biosensors and Bioelectronics</i> , 2010, 26, 228-234.	5.3	19
35	Dry-reagent disposable biosensor for visual genotyping of single nucleotide polymorphisms by oligonucleotide ligation reaction: application to pharmacogenetic analysis. <i>Human Mutation</i> , 2008, 29, 1071-1078.	1.1	18
36	A Highly Sensitive Enzyme-amplified Lanthanide Luminescence Immunoassay for Interleukin 6. <i>Clinical Chemistry</i> , 1998, 44, 1351-1353.	1.5	14

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37	Rapid genotyping of CYP2D6, CYP2C19 and TPMT polymorphisms by primer extension reaction in a dipstick format. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1849-1857.	1.9	14
38	Dual-allele dipstick assay for genotyping single nucleotide polymorphisms by primer extension reaction. <i>European Journal of Human Genetics</i> , 2009, 17, 105-111.	1.4	14
39	Detection of transgenes in soybean via a polymerase chain reaction and a simple bioluminometric assay based on a universal aequorin-labeled oligonucleotide probe. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1748-1753.	1.9	13
40	Expression Hybridization Assays Combining cDNAs from Firefly and Renilla Luciferases as Labels for Simultaneous Determination of Two Target Sequences. <i>Analytical Chemistry</i> , 2000, 72, 4022-4028.	3.2	12
41	Peripheral alpha-synuclein levels in patients with genetic and non-genetic forms of Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020, 73, 35-40.	1.1	12
42	Fluorometric determination of magnesium in serum with 2-hydroxy-1-naphthaldehyde salicyloylhydrazone.. <i>Clinical Chemistry</i> , 1989, 35, 1492-1496.	1.5	11
43	Quadruple-allele chemiluminometric assay for simultaneous genotyping of two single-nucleotide polymorphisms. <i>Analyst, The</i> , 2009, 134, 725.	1.7	11
44	Visual genotyping of SNPs of drug-metabolizing enzymes by tetra-primer PCR coupled with a dry-reagent DNA biosensor. <i>Pharmacogenomics</i> , 2009, 10, 495-504.	0.6	11
45	Visual screening for JAK2V617F mutation by a disposable dipstick. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1911-1916.	1.9	11
46	Simple spectrofluorometric determination of p-aminobenzoic and p-aminosalicylic acids in biological fluids by use of terbium-sensitized luminescence. <i>Clinical Chemistry</i> , 1996, 42, 1659-65.	1.5	11
47	High-throughput microtiter well-based bioluminometric genotyping of two single-nucleotide polymorphisms in the toll-like receptor-4 gene. <i>Analytical Biochemistry</i> , 2008, 376, 235-241.	1.1	10
48	Kinetic fluorometric determination of aluminum in serum.. <i>Clinical Chemistry</i> , 1986, 32, 1481-1483.	1.5	9
49	Quadruple-allele dipstick test for simultaneous visual genotyping of A896G (Asp299Gly) and C1196T (Thr399Ile) polymorphisms in the toll-like receptor-4 gene. <i>Clinica Chimica Acta</i> , 2011, 412, 1968-1972.	0.5	9
50	A more simple, rapid and sensitive fluorimetric method for the determination of isoniazid and acetylisoniazid in serum. Application for acetylator phenotyping. <i>Clinica Chimica Acta</i> , 1988, 175, 175-181.	0.5	8
51	Determination of prostate specific antigen mRNA in peripheral blood by reverse transcriptase polymerase chain reaction and a simple chemiluminometric hybridization assay in a high-throughput format. <i>Analytical Biochemistry</i> , 2003, 313, 97-105.	1.1	8
52	Ultrafast fluorescence dynamics of Sybr Green I/DNA complexes. <i>Chemical Physics Letters</i> , 2010, 485, 187-190.	1.2	8
53	Lateral flow dipstick test for genotyping of 15 beta-globin gene (HBB) mutations with naked-eye detection. <i>Analytica Chimica Acta</i> , 2012, 727, 61-66.	2.6	8
54	Two-panel molecular testing for genetic predisposition for thrombosis using multi-allele visual biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1943-1952.	1.9	8

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55	Flow injection spectrofluorimetric method for the determination of magnesium in blood serum. <i>Analyst</i> , The, 1995, 120, 2115.	1.7	7
56	High-throughput chemiluminometric genotyping of single nucleotide polymorphisms of histamine, serotonin, and adrenergic receptor genes. <i>Analytical Biochemistry</i> , 2009, 385, 34-41.	1.1	7
57	Bioluminometric Assay for Relative Quantification of Mutant Allele Burden: Application to the Oncogenic Somatic Point Mutation JAK2 V617F. <i>Analytical Chemistry</i> , 2009, 81, 8596-8602.	3.2	7
58	Association of TLR4 Single-Nucleotide Polymorphisms and Sarcoidosis in Greek Patients. <i>Genetic Testing and Molecular Biomarkers</i> , 2009, 13, 849-853.	0.3	7
59	Absolute Quantification of the Alleles in Somatic Point Mutations by Bioluminometric Methods based on Competitive Polymerase Chain Reaction in the Presence of a Locked Nucleic Acid Blocker or an Allele-Specific Primer. <i>Analytical Chemistry</i> , 2011, 83, 6545-6551.	3.2	7
60	Quantitative Bioluminometric Method for DNA-Based Species/Varietal Identification in Food Authenticity Assessment. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 912-916.	2.4	7
61	Fluorimetric kinetic studies and sub- μ M determination of aluminium with 2-hydroxy-1-naphthaldehyde p-methoxybenzoylhydrazone. <i>Talanta</i> , 1984, 31, 253-257.	2.9	6
62	Novel Hybridization Assay Configurations Based on In Vitro Expression of DNA Reporter Molecules. <i>Clinical Biochemistry</i> , 1998, 31, 151-158.	0.8	6
63	High-throughput chemiluminometric determination of prostate-specific membrane antigen mRNA in peripheral blood by RT-PCR using a synthetic RNA internal standard. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 90-7.	1.9	5
64	Method for rapid conjugation of recombinant photoprotein aequorin with streptavidin and application as a universal detection reagent for binding assays. <i>Analytica Chimica Acta</i> , 2006, 558, 267-273.	2.6	5
65	Multi-allele genotyping platform for the simultaneous detection of mutations in the Wilson disease related ATP7B gene. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1006, 201-208.	1.2	4
66	Photoproteins in Nucleic Acid Analysis. , 2006, , 77-94.		3
67	Chapter 9. Gene Assays Based on Bio(Chemi)luminescence. , 2010, , 334-377.		3
68	A simplified approach for FSHD molecular testing. <i>Clinica Chimica Acta</i> , 2014, 429, 96-103.	0.5	3
69	Multi-allele DNA biosensor for the rapid genotyping of α -nondeletion α ™ alpha thalassaemia mutations in HBA1 and HBA2 genes by means of multiplex primer extension reaction. <i>Clinica Chimica Acta</i> , 2015, 446, 241-247.	0.5	3
70	Multianalyte quantitative competitive PCR on optically encoded microspheres for an eight-gene panel related to prostate cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 971-980.	1.9	3
71	Paper-based device providing visual genetic signatures for precision medicine: application to breast cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3769-3776.	1.9	3
72	Duplex RT-PCR and chemiluminometric hybridization assay for combined screening of the mRNAs of prostate-specific antigen and prostate-specific membrane antigen in peripheral blood. <i>Analytica Chimica Acta</i> , 2005, 531, 193-198.	2.6	2

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73	Screening non-deletion $\hat{\pm}$ -thalassaemia mutations in the HBA1 and HBA2 genes by high-resolution melting analysis. <i>Clinical Chemistry and Laboratory Medicine</i> , 2015, 53, 1951-9.	1.4	2
74	Multi-allele dipstick assay for visual genotyping of four novel SIRT1 gene variant alleles as candidate biomarkers for sporadic Parkinson disease. <i>Mikrochimica Acta</i> , 2017, 184, 2845-2853.	2.5	2
75	Fluorometric determination of magnesium in serum with 2-hydroxy-1-naphthaldehyde salicyloylhydrazone. <i>Clinical Chemistry</i> , 1989, 35, 1492-6.	1.5	2