

# Dimosthenis L Giokas

## List of Publications by Year in descending order

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86  
papers

3,394  
citations

159585

30  
h-index

149698

56  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micelle-mediated separation and cloud-point extraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 426-436.	11.4	435
2	UV filters: From sunscreens to human body and the environment. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 360-374.	11.4	397
3	Determination of UV-filter residues in bathing waters by liquid chromatography UV-diode array and gas chromatography-mass spectrometry after micelle mediated extraction-solvent back extraction. <i>Journal of Chromatography A</i> , 2005, 1077, 19-27.	3.7	150
4	Nanoparticle-assisted chemiluminescence and its applications in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1113-1126.	11.4	122
5	Determination of residues of UV filters in natural waters by solid-phase extraction coupled to liquid chromatography-photodiode array detection and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1026, 289-293.	3.7	119
6	Development of stir bar sorptive-dispersive microextraction mediated by magnetic nanoparticles and its analytical application to the determination of hydrophobic organic compounds in aqueous media. <i>Journal of Chromatography A</i> , 2014, 1362, 25-33.	3.7	114
7	Programming Fluid Transport in Paper-Based Microfluidic Devices Using Razor-Crafted Open Channels. <i>Analytical Chemistry</i> , 2014, 86, 6202-6207.	6.5	111
8	Intrinsic peroxidase-like activity of rhodium nanoparticles, and their application to the colorimetric determination of hydrogen peroxide and glucose. <i>Mikrochimica Acta</i> , 2018, 185, 22.	5.0	109
9	Paper-based assay of antioxidant activity using analyte-mediated on-paper nucleation of gold nanoparticles as colorimetric probes. <i>Analytica Chimica Acta</i> , 2015, 860, 61-69.	5.4	76
10	Speciation of Fe(II) and Fe(III) by the modified ferrozine method, FIA-spectrophotometry, and flame AAS after cloud-point extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 237-243.	3.7	72
11	Speciation of phosphorus fractionation in river sediments by explanatory data analysis. <i>Water Research</i> , 2007, 41, 406-418.	11.3	67
12	An overview of the analytical methods for the determination of organic ultraviolet filters in biological fluids and tissues. <i>Analytica Chimica Acta</i> , 2012, 752, 11-29.	5.4	67
13	Ultratrace Determination of Silver, Gold, and Iron Oxide Nanoparticles by Micelle Mediated Preconcentration/Selective Back-Extraction Coupled with Flow Injection Chemiluminescence Detection. <i>Analytical Chemistry</i> , 2014, 86, 3484-3492.	6.5	67
14	Ligand-free gold nanoparticles as colorimetric probes for the non-destructive determination of total dithiocarbamate pesticides after solid phase extraction. <i>Talanta</i> , 2014, 119, 276-283.	5.5	61
15	On-line selective detection of antioxidants free-radical scavenging activity based on Co(II)/EDTA-induced luminol chemiluminescence by flow injection analysis. <i>Analytica Chimica Acta</i> , 2007, 589, 59-65.	5.4	58
16	Determination of ultraviolet filters in bathing waters by stir bar sorptive-dispersive microextraction coupled to thermal desorption-gas chromatography-mass spectrometry. <i>Talanta</i> , 2016, 147, 246-252.	5.5	55
17	Cloud point-dispersive 1/4-solid phase extraction of hydrophobic organic compounds onto highly hydrophobic core-shell Fe <sub>2</sub> O <sub>3</sub> @C magnetic nanoparticles. <i>Journal of Chromatography A</i> , 2012, 1251, 33-39.	3.7	54
18	Stir bar sorptive-dispersive microextraction mediated by magnetic nanoparticles-nylon 6 composite for the extraction of hydrophilic organic compounds in aqueous media. <i>Analytica Chimica Acta</i> , 2016, 926, 63-71.	5.4	49

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19	Paper-Based Microfluidic Device with Integrated Sputtered Electrodes for Stripping Voltammetric Determination of DNA via Quantum Dot Labeling. <i>Analytical Chemistry</i> , 2018, 90, 1092-1097.	6.5	49
20	Indirect chemiluminescence-based detection of mefenamic acid in pharmaceutical formulations by flow injection analysis and effect of gold nanocatalysts. <i>Talanta</i> , 2009, 79, 893-899.	5.5	47
21	Metal Ion Determination by Flame Atomic Absorption Spectrometry through Reagentless Coacervate Phase Separation Extraction into Lamellar Vesicles. <i>Analytical Chemistry</i> , 2004, 76, 1302-1309.	6.5	42
22	Determination of the pesticide carbaryl and its photodegradation kinetics in natural waters by flow injection direct chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2006, 573-574, 354-359.	5.4	41
23	Micelle mediated extraction of magnesium from water samples with trizma-chloranilate and determination by flame atomic absorption spectrometry. <i>Talanta</i> , 2002, 56, 415-424.	5.5	38
24	Fundamentals and applications of stir bar sorptive dispersive microextraction: A tutorial review. <i>Analytica Chimica Acta</i> , 2021, 1153, 338271.	5.4	36
25	The 4-aminoantipyrine Method Revisited: Determination of Trace Phenols by Micellar Assisted Preconcentration. <i>International Journal of Environmental Analytical Chemistry</i> , 2003, 83, 507-514.	3.3	33
26	Recent Advances in Nanomaterial Probes for Optical Biothiol Sensing: A Review. <i>Analytical Letters</i> , 2018, 51, 443-468.	1.8	33
27	Design of a field flow system for the on-line spectrophotometric determination of phosphate, nitrite and nitrate in natural water and wastewater. <i>Mikrochimica Acta</i> , 2008, 160, 461-469.	5.0	32
28	On the re-assessment of the optimum conditions for the determination of platinum, palladium and rhodium in environmental samples by electrothermal atomic absorption spectrometry and microwave digestion. <i>Talanta</i> , 2008, 76, 635-641.	5.5	32
29	Dispersive micro-solid phase extraction of ortho-phosphate ions onto magnetite nanoparticles and determination as its molybdenum blue complex. <i>Talanta</i> , 2012, 99, 62-68.	5.5	32
30	Development of 1-(2-pyridylazo)-2-naphthol-modified polymeric membranes for the effective batch pre-concentration and determination of zinc traces with flame atomic absorption spectrometry. <i>Talanta</i> , 2002, 56, 491-498.	5.5	30
31	A single-reagent method for the speciation of chromium in natural waters by flame atomic absorption spectrometry based on vesicular liquid coacervate extraction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 957-965.	2.9	30
32	Application of a novel chemometric approach to the determination of aqueous photolysis rates of organic compounds in natural waters. <i>Talanta</i> , 2007, 71, 288-295.	5.5	30
33	Colorimetric and visual read-out determination of cyanuric acid exploiting the interaction between melamine and silver nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 623-629.	5.0	30
34	Expanding the application of stir bar sorptive-dispersive microextraction approach to solid matrices: Determination of ultraviolet filters in coastal sand samples. <i>Journal of Chromatography A</i> , 2018, 1564, 25-33.	3.7	30
35	Copper fractionation with dissolved organic matter in natural waters and wastewater a mixed micelle mediated methodology (cloud point extraction) employing flame atomic absorption spectrometry. <i>Journal of Environmental Monitoring</i> , 2002, 4, 505-510.	2.1	29
36	Alkaline earth metal effect on the size and color transition of citrate-capped gold nanoparticles and analytical implications in periodate-luminol chemiluminescence. <i>Analytica Chimica Acta</i> , 2010, 669, 45-52.	5.4	28

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37	Paper-based devices for biothiols sensing using the photochemical reduction of silver halides. <i>Analytica Chimica Acta</i> , 2018, 1036, 89-96.	5.4	27
38	The use of surfactant-based separation techniques for monitoring of orthophosphate in natural waters and wastewater. <i>Science of the Total Environment</i> , 2003, 305, 157-167.	8.0	26
39	On-line derivatization coupled to flow injection permanganate chemiluminescence detection of total carbonyl compounds in natural waters and drinking water. <i>Analytica Chimica Acta</i> , 2009, 651, 188-195.	5.4	23
40	Determination of gold nanoparticles in environmental water samples by second-order optical scattering using dithiotreitol-functionalized CdS quantum dots after cloud point extraction. <i>Journal of Hazardous Materials</i> , 2017, 323, 67-74.	12.4	23
41	Development of a generic assay for the determination of total trihydroxybenzoate derivatives based on gold-luminol chemiluminescence. <i>Analytica Chimica Acta</i> , 2013, 764, 70-77.	5.4	22
42	Surfactant-enhanced liquid-liquid microextraction coupled to micro-solid phase extraction onto highly hydrophobic magnetic nanoparticles. <i>Mikrochimica Acta</i> , 2013, 180, 775-782.	5.0	21
43	Low-cost colorimetric assay of biothiols based on the photochemical reduction of silver halides and consumer electronic imaging devices. <i>Talanta</i> , 2017, 172, 15-22.	5.5	21
44	Determination of silver nanoparticles by atomic absorption spectrometry after dispersive suspended microextraction followed by oxidative dissolution back-extraction. <i>Talanta</i> , 2019, 196, 255-261.	5.5	20
45	Development of a sequential extraction and speciation procedure for assessing the mobility and fractionation of metal nanoparticles in soils. <i>Environmental Pollution</i> , 2020, 263, 114407.	7.5	20
46	Monitoring and classification of wastewater quality using supervised pattern recognition techniques and deterministic resolution of molecular absorption spectra based on multiwavelength UV spectra deconvolution. <i>Talanta</i> , 2010, 82, 575-581.	5.5	19
47	Single-step coacervate-mediated preconcentration of metals and metal-chelates in supramolecular vesicular surfactant assemblies and determination by flame atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2005, 537, 239-248.	5.4	18
48	Survey of the Distribution and Time-Dependent Increase of Platinum-Group Element Accumulation Along Urban Roads in Ioannina (NW Greece). <i>Water, Air, and Soil Pollution</i> , 2009, 201, 265-281.	2.4	18
49	Determination of phenolic compounds using spectral and color transitions of rhodium nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 932, 80-87.	5.4	18
50	Development of a chromium speciation probe based on morphology-dependent aggregation of polymerized vesicle-functionalized gold nanoparticles. <i>Analyst</i> , 2009, 134, 2475.	3.5	17
51	Concentration of organic compounds in natural waters with solid-phase dispersion based on advesicle modified silica prior to liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1097, 17-24.	3.7	16
52	Coacervation of Surface-Functionalized Polymerized Vesicles Derived from Ammonium Bromide Surfactants. Application to the Selective Speciation of Chromium in Environmental Samples. <i>Analytical Chemistry</i> , 2008, 80, 9787-9796.	6.5	16
53	In-situ suspended aggregate microextraction of gold nanoparticles from water samples and determination by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2016, 151, 91-99.	5.5	16
54	Alkylamino-terephthalate ligands stabilize 8-connected Zr <sup>4+</sup> MOFs with highly efficient sorption for toxic Se species. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3379-3387.	10.3	16

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55	A fast assay of water hardness ions based on alkaline earth metal induced coacervation (HALC). <i>Talanta</i> , 2010, 80, 2049-2056.	5.5	15
56	Calibrant-loaded paper-based analytical devices for standard addition quantitative assays. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 860-867.	7.8	15
57	A Family of Ru <sup>II</sup> Photosensitizers with High Singlet Oxygen Quantum Yield: Synthesis, Characterization, and Evaluation. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4628-4635.	2.0	13
58	Cotton fabric decorated by a Zr <sup>4+</sup> MOF for selective As(V) and Se(IV) removal from aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107705.	6.7	13
59	Sensitivity enhancement of liquid chromatographic direct chemiluminescence detection by on-line post-column solvent mediated pre-oxidative chemiluminescence. <i>Journal of Chromatography A</i> , 2006, 1107, 208-215.	3.7	12
60	Analytical Determination and Bio-Monitoring of Platinum Group Elements in Roadside Grass Using Microwave Assisted Digestion and Electrothermal Atomic Absorption Spectrometry. <i>Analytical Letters</i> , 2012, 45, 526-538.	1.8	12
61	Determination of dissolved organic matter based on UV-light induced reduction of ionic silver to metallic nanoparticles by humic and fulvic acids. <i>Analytica Chimica Acta</i> , 2014, 812, 121-128.	5.4	11
62	Generic Assay of Sulfur-Containing Compounds Based on Kinetics Inhibition of Gold Nanoparticle Photochemical Growth. <i>ACS Omega</i> , 2018, 3, 16831-16838.	3.5	11
63	Micelle-Mediated Extraction of Heavy Metals from Environmental Samples: An Environmental Green Chemistry Laboratory Experiment. <i>Journal of Chemical Education</i> , 2003, 80, 61.	2.3	10
64	Synthetic membranes (vesicles) in inorganic ion analysis: A review. <i>Analytica Chimica Acta</i> , 2011, 683, 156-169.	5.4	10
65	In-situ suspended aggregate microextraction: A sample preparation approach for the enrichment of organic compounds in aqueous solutions. <i>Journal of Chromatography A</i> , 2015, 1408, 63-71.	3.7	10
66	Single-point calibration and standard addition assays on calibrant-loaded paper-based analytical devices. <i>Talanta</i> , 2019, 201, 149-155.	5.5	9
67	Fabric phase sorptive extraction and passive sampling of ultraviolet filters from natural waters using a zirconium metal organic framework-cotton composite. <i>Journal of Chromatography A</i> , 2022, 1670, 462945.	3.7	9
68	Identification of longitudinal and temporal patterns of phosphorus fractionation in river sediments by non-parametric statistics and pattern recognition techniques. <i>Desalination</i> , 2007, 213, 311-333.	8.2	8
69	Analytical application of surface-affinity polymerized vesicular membranes to trace metal analysis by electrothermal atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2010, 169, 99-107.	5.0	8
70	Application of dissolvable Mg/Al layered double hydroxides as an adsorbent for the dispersive solid phase extraction of gold nanoparticles prior to their determination by atomic absorption spectrometry. <i>Analytical Methods</i> , 2020, 12, 368-375.	2.7	8
71	Biothiol modulated growth and aggregation of gold nanoparticles and their determination in biological fluids using digital photometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119337.	3.9	8
72	Solid ink-printed filter paper as a green adsorbent material for the solid-phase extraction of UV filters from water samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 1163-1177.	3.3	7

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73	On-line extraction coupled to liquid chromatographic analysis of hydrophobic organic compounds from complex solid samples Application to the analysis of UV filters in soils and sediments. <i>Journal of Chromatography A</i> , 2020, 1610, 460561.	3.7	7
74	Multivariate chemometric discrimination of cigarette tobacco blends based on the UV-Vis spectrum of their hydrophilic extracts. <i>Journal of Hazardous Materials</i> , 2011, 185, 86-92.	12.4	5
75	Flow through Fluorescence Detection of Phosphate in Human Saliva Based on Sensitized Turn-On Photoluminescence of CdS Quantum Dots. <i>Analytical Letters</i> , 2016, 49, 618-626.	1.8	5
76	Photography-based photometry: High throughput UV photometric analysis without scientific equipment based on contact printing photography and common imaging devices. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129018.	7.8	4
77	Gold-Modified Micellar Composites as Colorimetric Probes for the Determination of Low Molecular Weight Thiols in Biological Fluids Using Consumer Electronic Devices. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2705.	2.5	4
78	Paper-Based Device for Sweat Chloride Testing Based on the Photochemical Response of Silver Halide Nanocrystals. <i>Chemosensors</i> , 2021, 9, 286.	3.6	4
79	Gold-activated luminol chemiluminescence for the selective determination of cysteine over homocysteine and glutathione. <i>Talanta</i> , 2022, 245, 123464.	5.5	4
80	Micellar Enhanced Analytical Application of Bismuthiol-II for the Spectrophotometric Determination of Trace Copper in Nutritional Matrices. <i>Mikrochimica Acta</i> , 2002, 140, 81-86.	5.0	2
81	Environmental Monitoring of Cosmetic Ingredients. , 2018, , 435-547.		2
82	Wax-Printed Fluidic Controls for Delaying and Accelerating Fluid Transport on Paper-Based Analytical Devices. <i>Chemosensors</i> , 2022, 10, 155.	3.6	2
83	Environmental education and research in Greece. <i>Environmental Science and Pollution Research</i> , 2001, 8, 289-294.	5.3	1
84	Monitoring of Ortho-Phosphates in Wastewaters Based on the Oxidizing Effect of Molybdenum on Diphenylamine in A Formic Acid Solution Environment. <i>International Journal of Environmental Analytical Chemistry</i> , 2003, 83, 167-175.	3.3	1
85	Fast screening of municipal wastewater components by reversed-phase chromatography coupled to ultraviolet-diode array detection. <i>Water and Environment Journal</i> , 2007, 21, 157-164.	2.2	1
86	Evaluation of Photosensitive Paper Coatings as Detectors for Instrumentation-Free UV Photometric Analysis Based on Photography-Based Photometry. <i>Chemosensors</i> , 2021, 9, 233.	3.6	1