

Hector Gonzalez-Iglesias

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

922
citations

430874

18
h-index

501196

28
g-index

52
all docs

52
docs citations

52
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Homeostatic alterations related to total antioxidant capacity, elemental concentrations and isotopic compositions in aqueous humor of glaucoma patients. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 515-524.	3.7	10
2	Gold nanoclusters as elemental label for the sequential quantification of apolipoprotein E and metallothionein 2A in individual human cells of the retinal pigment epithelium using single cell-ICP-MS. <i>Analytica Chimica Acta</i> , 2022, 1203, 339701.	5.4	7
3	Iridium nanoclusters as high sensitive-tunable elemental labels for immunoassays: Determination of IgE and APOE in aqueous humor by inductively coupled plasma-mass spectrometry. <i>Talanta</i> , 2022, 244, 123424.	5.5	8
4	Targeted Analysis of Tears Revealed Specific Altered Metal Homeostasis in Age-Related Macular Degeneration. , 2022, 63, 10.		3
5	Real matrix-matched standards for quantitative bioimaging of cytosolic proteins in individual cells using metal nanoclusters as immunoprobes-label: A case study using laser ablation ICP-MS detection. <i>Analytica Chimica Acta</i> , 2022, 1221, 340128.	5.4	5
6	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma ICP-MS Mass spectrometry using metal nanoclusters as labels. <i>Talanta</i> , 2021, 221, 121489.	5.5	19
7	Antioxidant Defenses in the Human Eye: A Focus on Metallothioneins. <i>Antioxidants</i> , 2021, 10, 89.	5.1	48
8	Association of Rare <i>CYP39A1</i> Variants With Exfoliation Syndrome Involving the Anterior Chamber of the Eye. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 753.	7.4	16
9	Candidate Glaucoma Biomarkers: From Proteins to Metabolites, and the Pitfalls to Clinical Applications. <i>Biology</i> , 2021, 10, 763.	2.8	14
10	Multiple heart-cutting two dimensional liquid chromatography and isotope dilution tandem mass spectrometry for the absolute quantification of proteins in human serum. <i>Analytica Chimica Acta</i> , 2021, 1184, 339022.	5.4	10
11	Pilot study of homeostatic alterations of mineral elements in serum of patients with age-related macular degeneration via elemental and isotopic analysis using ICP-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112857.	2.8	14
12	The association study of lipid metabolism gene polymorphisms with AMD identifies a protective role for APOE ϵ 2 allele in the wet form in a Northern Spanish population. <i>Acta Ophthalmologica</i> , 2020, 98, e282-e291.	1.1	7
13	Association Study of <i>MTHFR</i> Polymorphisms with Nonarteritic Anterior Ischemic Optic Neuropathy in a Spanish Population. <i>Biomedicine Hub</i> , 2020, 5, 1-13.	1.2	5
14	Systemic Alterations of Immune Response-Related Proteins during Glaucoma Development in the Murine Model DBA/2J. <i>Diagnostics</i> , 2020, 10, 425.	2.6	2
15	The Use of Vitamins and Coenzyme Q10 for the Treatment of Vascular Occlusion Diseases Affecting the Retina. <i>Nutrients</i> , 2020, 12, 723.	4.1	10
16	Imaging of proteins in biological tissues by fluorescence microscopy and laser ablation-ICP-MS using natural and isotopically enriched silver nanoclusters. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1868-1879.	3.0	10
17	Synthesis of Size Monodisperse Water-Soluble Metal Nanoclusters for Protein Quantification by Elemental Mass Spectrometry. <i>Materials Proceedings</i> , 2020, 4, .	0.2	0
18	Association study of high-frequency variants of <i>MTHFR</i> gene with retinal vein occlusion in a Spanish population. <i>Ophthalmic Genetics</i> , 2019, 40, 342-349.	1.2	4

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19	Bimodal determination of immunoglobulin E by fluorometry and ICP-MS by using platinum nanoclusters as a label in an immunoassay. <i>Mikrochimica Acta</i> , 2019, 186, 705.	5.0	10
20	Fluorescent silver nanoclusters as antibody label in a competitive immunoassay for the complement factor H. <i>Mikrochimica Acta</i> , 2019, 186, 429.	5.0	14
21	Isotopically Enriched Tracers and Inductively Coupled Plasma Mass Spectrometry Methodologies to Study Zinc Supplementation in Single-Cells of Retinal Pigment Epithelium in Vitro. <i>Analytical Chemistry</i> , 2019, 91, 4488-4495.	6.5	10
22	Coenzyme Q10 treatment improved visual field after homonymous quadrantanopia caused by occipital lobe infarction. <i>American Journal of Ophthalmology Case Reports</i> , 2019, 13, 70-75.	0.7	2
23	Quantitative mapping of specific proteins in biological tissues by laser ablation-ICP-MS using exogenous labels: aspects to be considered. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 549-558.	3.7	27
24	Bioimaging of metallothioneins in ocular tissue sections by laser ablation-ICP-MS using bioconjugated gold nanoclusters as specific tags. <i>Mikrochimica Acta</i> , 2018, 185, 64.	5.0	27
25	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. <i>Talanta</i> , 2018, 178, 222-230.	5.5	20
26	Protective effect of selenium supplementation following oxidative stress mediated by glucose on retinal pigment epithelium. <i>Metallomics</i> , 2018, 10, 83-92.	2.4	34
27	The Zinc-Metallothionein Redox System Reduces Oxidative Stress in Retinal Pigment Epithelial Cells. <i>Nutrients</i> , 2018, 10, 1874.	4.1	39
28	Quantitative Imaging of Specific Proteins in the Human Retina by Laser Ablation ICPMS using Bioconjugated Metal Nanoclusters as Labels. <i>Analytical Chemistry</i> , 2018, 90, 12145-12151.	6.5	26
29	Quantitative distribution of Zn, Fe and Cu in the human lens and study of the Zn-metallothionein redox system in cultured lens epithelial cells by elemental MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1746-1756.	3.0	13
30	Genetic association study of exfoliation syndrome identifies a protective rare variant at LOXL1 and five new susceptibility loci. <i>Nature Genetics</i> , 2017, 49, 993-1004.	21.4	114
31	Metallothionein polymorphisms in a Northern Spanish population with neovascular and dry forms of age-related macular degeneration. <i>Ophthalmic Genetics</i> , 2017, 38, 451-458.	1.2	2
32	Iron bioavailability from supplemented formula milk: effect of lactoferrin addition. <i>European Journal of Nutrition</i> , 2017, 56, 2611-2620.	3.9	12
33	CFH polymorphisms in a Northern Spanish population with neovascular and dry forms of age-related macular degeneration. <i>Acta Ophthalmologica</i> , 2015, 93, e658-66.	1.1	11
34	LOXL1 gene variants and their association with pseudoexfoliation glaucoma (XFG) in Spanish patients. <i>BMC Medical Genetics</i> , 2015, 16, 72.	2.1	14
35	Quantitative selenium speciation by HPLC-ICP-MS(IDA) and simultaneous activity measurements in human vitreous humor. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2405-2413.	3.7	9
36	Elemental and molecular mass spectrometry for integrated selenosugar speciation in liver and kidney tissues of maternal feeding and supplemented rats. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 267-276.	3.0	9

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37	Sensitive targeted multiple protein quantification based on elemental detection of Quantum Dots. <i>Analytica Chimica Acta</i> , 2015, 879, 77-84.	5.4	25
38	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2343-2348.	3.7	50
39	Metallothioneins (MTs) in the human eye: a perspective article on the zinc-MT redox cycle. <i>Metallomics</i> , 2014, 6, 201.	2.4	39
40	Comparative proteomic study in serum of patients with primary open-angle glaucoma and pseudoexfoliation glaucoma. <i>Journal of Proteomics</i> , 2014, 98, 65-78.	2.4	39
41	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3091-3096.	3.7	53
42	The Stoichiometric Transition from Zn ₆ Cu ₁ -Metallothionein to Zn ₇ -Metallothionein Underlies the Up-regulation of Metallothionein (MT) Expression. <i>Journal of Biological Chemistry</i> , 2012, 287, 28456-28469.	3.4	26
43	Nutritional iron supplementation studies based on enriched ⁵⁷ F, added to milk in rats, and isotope pattern deconvolution-ICP-MS analysis. <i>Electrophoresis</i> , 2012, 33, 2407-2415.	2.4	16
44	Iron content and its speciation in human milk from mothers of preterm and full-term infants at early stages of lactation: A comparison with commercial infant milk formulas. <i>Microchemical Journal</i> , 2012, 105, 108-114.	4.5	20
45	Efficiency of iodine supplementation, as potassium iodide, during lactation: A study in neonates and their mothers. <i>Food Chemistry</i> , 2012, 133, 859-865.	8.2	9
46	Selenium speciation in rat colon tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 100-108.	3.0	2
47	Speciation and isotope pattern deconvolution for inductively coupled plasma-mass spectrometry quantitative studies of mineral metabolism and supplementation. <i>Pure and Applied Chemistry</i> , 2010, 82, 447-460.	1.9	9
48	Enriched stable isotopes and isotope pattern deconvolution for quantitative speciation of endogenous and exogenous selenium in rat urine by HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 460.	3.0	27
49	Use of enriched ⁷⁴ Se and ⁷⁷ Se in combination with isotope pattern deconvolution to differentiate and determine endogenous and supplemented selenium in lactating rats. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 707-713.	3.7	22
50	Exploring the possibilities of calcium isotopic analysis in aqueous humor using a fast and miniaturized calcium isolation procedure. <i>Journal of Analytical Atomic Spectrometry</i> , 0, , .	3.0	0