

Cesar M Castro

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

5,006
citations

257450

24
h-index

206112

48
g-index

59
all docs

59
docs citations

59
times ranked

7669
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free detection and molecular profiling of exosomes with a nano-plasmonic sensor. Nature Biotechnology, 2014, 32, 490-495.	17.5	1,060
2	New Technologies for Analysis of Extracellular Vesicles. Chemical Reviews, 2018, 118, 1917-1950.	47.7	1,041
3	Integrated Magneto-Electrochemical Sensor for Exosome Analysis. ACS Nano, 2016, 10, 1802-1809.	14.6	372
4	A magneto-DNA nanoparticle system for rapid detection and phenotyping of bacteria. Nature Nanotechnology, 2013, 8, 369-375.	31.5	307
5	Antitumor activity and safety of the PARP inhibitor rucaparib in patients with high-grade ovarian carcinoma and a germline or somatic BRCA1 or BRCA2 mutation: Integrated analysis of data from Study 10 and ARIEL2. Gynecologic Oncology, 2017, 147, 267-275.	1.4	222
6	Ultrasensitive Clinical Enumeration of Rare Cells ex Vivo Using a Micro-Hall Detector. Science Translational Medicine, 2012, 4, 141ra92.	12.4	211
7	Multiparametric plasma EV profiling facilitates diagnosis of pancreatic malignancy. Science Translational Medicine, 2017, 9, .	12.4	211
8	Micro-NMR for Rapid Molecular Analysis of Human Tumor Samples. Science Translational Medicine, 2011, 3, 71ra16.	12.4	191
9	Assessment of Combined Nivolumab and Bevacizumab in Relapsed Ovarian Cancer. JAMA Oncology, 2019, 5, 1731.	7.1	150
10	Integrated Biosensor for Rapid and Point-of-Care Sepsis Diagnosis. ACS Nano, 2018, 12, 3378-3384.	14.6	122
11	An integrated magneto-electrochemical device for the rapid profiling of tumour extracellular vesicles from blood plasma. Nature Biomedical Engineering, 2021, 5, 678-689.	22.5	90
12	Phase Ib study of mirvetuximab soravtansine, a folate receptor alpha (FR α)-targeting antibody-drug conjugate (ADC), in combination with bevacizumab in patients with platinum-resistant ovarian cancer. Gynecologic Oncology, 2020, 157, 379-385.	1.4	89
13	Digital diffraction analysis enables low-cost molecular diagnostics on a smartphone. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5613-5618.	7.1	80
14	Novel nanosensing technologies for exosome detection and profiling. Lab on A Chip, 2017, 17, 2892-2898.	6.0	71
15	Miniaturized nuclear magnetic resonance platform for detection and profiling of circulating tumor cells. Lab on A Chip, 2014, 14, 14-23.	6.0	70
16	Plasmonic Sensors for Extracellular Vesicle Analysis: From Scientific Development to Translational Research. ACS Nano, 2020, 14, 14528-14548.	14.6	69
17	Analyses of Intravesicular Exosomal Proteins Using a Nano-Plasmonic System. ACS Photonics, 2018, 5, 487-494.	6.6	55
18	Design and clinical validation of a point-of-care device for the diagnosis of lymphoma via contrast-enhanced microholography and machine learning. Nature Biomedical Engineering, 2018, 2, 666-674.	22.5	55

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19	Deep transfer learning-based hologram classification for molecular diagnostics. Scientific Reports, 2018, 8, 17003.	3.3	48
20	AAV9 delivering a modified human Mullerian inhibiting substance as a gene therapy in patient-derived xenografts of ovarian cancer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4418-27.	7.1	45
21	Rapid identification of health care-associated infections with an integrated fluorescence anisotropy system. Science Advances, 2016, 2, e1600300.	10.3	44
22	Comparison of select cancer biomarkers in human circulating and bulk tumor cells using magnetic nanoparticles and a miniaturized micro-NMR system. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 1009-1017.	3.3	40
23	CD44 Splice Variant v8-10 as a Marker of Serous Ovarian Cancer Prognosis. PLoS ONE, 2016, 11, e0156595.	2.5	38
24	Molecular characterization of scant lung tumor cells using iron-oxide nanoparticles and micro-nuclear magnetic resonance. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 661-668.	3.3	35
25	Computational Optics Enables Breast Cancer Profiling in Point-of-Care Settings. ACS Nano, 2018, 12, 9081-9090.	14.6	26
26	Multichannel digital heteronuclear magnetic resonance biosensor. Biosensors and Bioelectronics, 2019, 126, 240-248.	10.1	25
27	Complementary, Alternative, Integrative, or Unconventional Medicine?. Oncologist, 2001, 6, 463-473.	3.7	24
28	Characterization and modulation of surface charges to enhance extracellular vesicle isolation in plasma. Theranostics, 2022, 12, 1988-1998.	10.0	23
29	Compact and Filter-Free Luminescence Biosensor for Mobile <i>in Vitro</i> Diagnoses. ACS Nano, 2019, 13, 11698-11706.	14.6	22
30	CytoPAN—Portable cellular analyses for rapid point-of-care cancer diagnosis. Science Translational Medicine, 2020, 12, .	12.4	21
31	Bead-Based Extracellular Vesicle Analysis Using Flow Cytometry. Advanced Biology, 2020, 4, 2000203.	3.0	15
32	Integrated microHall magnetometer to measure the magnetic properties of nanoparticles. Lab on A Chip, 2017, 17, 4000-4007.	6.0	13
33	Characterization of Extracellular Vesicles by Surface Plasmon Resonance. Methods in Molecular Biology, 2017, 1660, 133-141.	0.9	13
34	On Chip Analysis of CNS Lymphoma in Cerebrospinal Fluid. Theranostics, 2015, 5, 796-804.	10.0	12
35	Holographic Assessment of Lymphoma Tissue (HALT) for Global Oncology Field Applications. Theranostics, 2016, 6, 1603-1610.	10.0	12
36	Point-of-care cervical cancer screening using deep learning-based microholography. Theranostics, 2019, 9, 8438-8447.	10.0	12

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37	A rapid assay provides on-site quantification of tetrahydrocannabinol in oral fluid. Science Translational Medicine, 2021, 13, eabe2352.	12.4	12
38	Digital diffraction detection of protein markers for avian influenza. Lab on A Chip, 2016, 16, 1340-1345.	6.0	11
39	Exploring alternative ovarian cancer biomarkers using innovative nanotechnology strategies. Cancer and Metastasis Reviews, 2015, 34, 75-82.	5.9	8
40	Facile silicification of plastic surface for bioassays. Chemical Communications, 2017, 53, 2134-2137.	4.1	7
41	Thermophoretically enriched detection. Nature Biomedical Engineering, 2019, 3, 163-164.	22.5	7
42	Population exposure-efficacy and exposure-safety analyses for rucaparib in patients with recurrent ovarian carcinoma from Study 10 and ARIEL2. Gynecologic Oncology, 2021, 161, 668-675.	1.4	7
43	Hydrogel Stamping for Rapid, Multiplexed, Point-of-Care Immunostaining of Cells and Tissues. ACS Applied Materials & Interfaces, 2022, 14, 27613-27622.	8.0	7
44	Impact of Community-Based Clinical Breast Examinations in Botswana. JCO Global Oncology, 2021, 7, 17-26.	1.8	5
45	Challenges influencing next generation technologies for precision medicine. Expert Review of Precision Medicine and Drug Development, 2016, 1, 121-123.	0.7	2
46	Addressing cervical cancer screening disparities through advances in artificial intelligence and nanotechnologies for cellular profiling. Biophysics Reviews, 2021, 2, 011303.	2.7	2
47	Nanotechnology Platforms for Cancer Exosome Analyses. , 2018, , 119-128.		1
48	Imaging tumor pH-ysiology with smart contrast agents. Science Translational Medicine, 2016, 8, .	12.4	1
49	Taking cancer drug screening very personally. Science Translational Medicine, 2016, 8, 367ec190.	12.4	1
50	Repurposing exosomes: The (magnetic) force awakens. Science Translational Medicine, 2016, 8, .	12.4	0
51	Extra! Extra! Microfluidic chips go to print. Science Translational Medicine, 2016, 8, .	12.4	0
52	AC/DC: Portable diagnostics face the music. Science Translational Medicine, 2016, 8, .	12.4	0
53	Bugging cancer with guided swarming. Science Translational Medicine, 2016, 8, .	12.4	0
54	Lather, rinse, repeat for giant results. Science Translational Medicine, 2016, 8, .	12.4	0

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55	Good to the last “emulsified” drop. Science Translational Medicine, 2017, 9, .	12.4	0
56	Computational Optics for Point-of-Care Breast Cancer Profiling. Methods in Molecular Biology, 2022, 2393, 153-162.	0.9	0