

# Gerard L CotÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,067  
citations

567281

15  
h-index

434195

31  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectrally multiplexed assay using gap enhanced nanoparticle for detection of a myocardial infarction biomarker panel. <i>Analytica Chimica Acta</i> , 2022, 1198, 339562.	5.4	10
2	Multi-modal physiological sensing on the upper arm. , 2022, , .		1
3	An in vitro testing system for wrist-worn PPG devices. , 2022, , .		0
4	Skin optical properties in the obese and their relation to body mass index: a review. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	6
5	A portable brightfield and fluorescence microscope toward automated malarial parasitemia quantification in thin blood smears. <i>PLoS ONE</i> , 2022, 17, e0266441.	2.5	2
6	Detection of volatile organic compounds using mid-infrared silicon nitride waveguide sensors. <i>Scientific Reports</i> , 2022, 12, 5572.	3.3	8
7	Monte Carlo method for assessment of a multimodal insertable biosensor. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	3
8	A review of biosensor technologies for blood biomarkers toward monitoring cardiovascular diseases at the point-of-care. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112621.	10.1	78
9	Development of a colorimetric paper fluidic dipstick assay for measurement of glycated albumin to monitor gestational diabetes at the point-of-care. <i>Talanta</i> , 2021, 223, 121728.	5.5	15
10	Surface Functionalization Utilizing Mesoporous Silica Nanoparticles for Enhanced Evanescent-Field Mid-Infrared Waveguide Gas Sensing. <i>Coatings</i> , 2021, 11, 118.	2.6	11
11	Paper Microfluidic Device with a Horizontal Motion Valve and a Localized Delay for Automatic Control of a Multistep Assay. <i>Analytical Chemistry</i> , 2021, 93, 4497-4505.	6.5	13
12	Sources of Inaccuracy in Photoplethysmography for Continuous Cardiovascular Monitoring. <i>Biosensors</i> , 2021, 11, 126.	4.7	128
13	A thin whole blood smear prepared via pumpless microfluidics. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 1.	2.2	1
14	Diabetes Technology Meeting 2020. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 916-960.	2.2	1
15	Postprandial concentration of circulating branched chain amino acids are able to predict the carbohydrate content of the ingested mixed meal. <i>Clinical Nutrition</i> , 2021, 40, 5020-5029.	5.0	2
16	Brightfield and fluorescence in-channel staining of thin blood smears generated in a pumpless microfluidic. <i>Analytical Methods</i> , 2021, 13, 2238-2247.	2.7	0
17	Synthesis of SERS-active core-satellite nanoparticles using heterobifunctional PEG linkers. <i>Nanoscale Advances</i> , 2021, 4, 258-267.	4.6	11
18	Detection of cardiovascular disease associated miR-29a using paper-based microfluidics and surface enhanced Raman scattering. <i>Analyst</i> , The, 2020, 145, 983-991.	3.5	39

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19	All-nanoparticle layer-by-layer coatings for Mid-IR on-chip gas sensing. <i>Chemical Communications</i> , 2020, 56, 14283-14286.	4.1	5
20	Pumpless, "Self-Driven" Microfluidic Channels with Controlled Blood Flow Using an Amphiphilic Silicone. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1731-1738.	4.4	11
21	Aptamer-based surface-enhanced resonance Raman scattering assay on a paper fluidic platform for detection of cardiac troponin I. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	1
22	Aptamer-based surface-enhanced resonance Raman scattering assay on a paper fluidic platform for detection of cardiac troponin I. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	16
23	A SERS aptasensor for sensitive and selective detection of bis(2-ethylhexyl)phthalate. <i>RSC Advances</i> , 2019, 9, 2618-2625.	3.6	33
24	A self-cleaning, mechanically robust membrane for minimizing the foreign body reaction: towards extending the lifetime of sub-Q glucose biosensors. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 79.	3.6	15
25	Multidomain-Based Responsive Materials with Dual-Mode Optical Readouts. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14286-14295.	8.0	15
26	Aptamer-switching optical bioassay for citrulline detection at the point-of-care. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	5
27	Nanoparticle-based assay for detection of S100P mRNA using surface-enhanced Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	9
28	Portable bright-field, fluorescence, and cross-polarized microscope toward point-of-care imaging diagnostics. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	13
29	Foreign Body Reaction to a Subcutaneously Implanted Self-Cleaning, Thermo-responsive Hydrogel Membrane for Glucose Biosensors. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4104-4111.	5.2	20
30	A Layer-by-Layer Approach To Retain a Fluorescent Glucose Sensing Assay within the Cavity of a Hydrogel Membrane. <i>ACS Applied Bio Materials</i> , 2018, 1, 1319-1327.	4.6	22
31	Development of a miRNA surface-enhanced Raman scattering assay using benchtop and handheld Raman systems. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	8
32	In vivo performance of a visible wavelength optical sensor for monitoring intestinal perfusion and oxygenation. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	0
33	Surface-enhanced Raman spectroscopy competitive binding biosensor development utilizing surface modification of silver nanocubes and a citrulline aptamer. <i>Journal of Biomedical Optics</i> , 2017, 22, 075002.	2.6	8
34	Collection Method of SERS Active Nanoparticles for Sensitive and Precise Measurements. <i>Analytical Chemistry</i> , 2017, 89, 13120-13127.	6.5	14
35	Surface enhanced Raman spectroscopy (SERS) for in vitro diagnostic testing at the point of care. <i>Nanophotonics</i> , 2017, 6, 681-701.	6.0	63
36	In-silico and in-vitro investigation of a photonic monitor for intestinal perfusion and oxygenation. <i>Biomedical Optics Express</i> , 2017, 8, 3714.	2.9	1

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37	Self-Cleaning, Thermoresponsive P(NIPAAm-co-AMPS) Double Network Membranes for Implanted Glucose Biosensors. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 935-943.	3.6	29
38	Ferric plasmonic nanoparticles, aptamers, and magnetofluidic chips: toward the development of diagnostic surface-enhanced Raman spectroscopy assays. <i>Journal of Biomedical Optics</i> , 2016, 21, 127005.	2.6	5
39	Dual-modulation, dual-wavelength, optical polarimetry system for glucose monitoring. <i>Journal of Biomedical Optics</i> , 2016, 21, 087001.	2.6	9
40	High Affinity Mannotetraose as an Alternative to Dextran in ConA Based Fluorescent Affinity Glucose Assay Due to Improved FRET Efficiency. <i>ACS Sensors</i> , 2016, 1, 584-590.	7.8	12
41	Use of a micro- to nanochannel for the characterization of surface-enhanced Raman spectroscopy signals from unique functionalized nanoparticles. <i>Journal of Biomedical Optics</i> , 2016, 21, 085006.	2.6	3
42	Malaria Diagnosis Using a Mobile Phone Polarized Microscope. <i>Scientific Reports</i> , 2015, 5, 13368.	3.3	131
43	SERS-based hydrogel sensors for pH and enzymatic substrates. , 2015, , .		1
44	Overcoming the aggregation problem: A new type of fluorescent ligand for ConA-based glucose sensing. <i>Biosensors and Bioelectronics</i> , 2015, 63, 53-60.	10.1	16
45	Wireless Monitoring of Liver Hemodynamics In Vivo. <i>PLoS ONE</i> , 2014, 9, e102396.	2.5	13
46	Quantifying tissue mechanical properties using photoplethysmography. <i>Biomedical Optics Express</i> , 2014, 5, 2362.	2.9	16
47	Signs of aging-related inflammation and adaptive reserves of aged mesenteric lymphatic vessels. <i>FASEB Journal</i> , 2011, 25, 1022.5.	0.5	0
48	Optofluidic device for ultra-sensitive detection of proteins using surface-enhanced Raman spectroscopy. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 411-417.	2.2	55
49	Measurement of pH and dissolved oxygen within cell culture media using a hydrogel microarray sensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 388-398.	7.8	72
50	Optofluidic device for molecular detection via surface enhanced Raman spectroscopy. , 2008, , .		0
51	Application of Surface-Enhanced Raman Spectroscopy for Detection of Beta Amyloid Using Nanoshells. <i>Plasmonics</i> , 2007, 2, 55-64.	3.4	67
52	Microporated PEG Spheres for Fluorescent Analyte Detection. <i>Journal of Fluorescence</i> , 2006, 17, 57-63.	2.5	29
53	An inductively coupled, doubly tuned resonator for in vivo nuclear magnetic resonance spectroscopy. <i>Review of Scientific Instruments</i> , 1999, 70, 3454-3456.	1.3	4