

# Edgar D Goluch

## List of Publications by Year in descending order

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47  
papers

2,033  
citations

257450

24  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial chatter in chronic wound infections. <i>Wound Repair and Regeneration</i> , 2021, 29, 106-116.	3.0	13
2	Electrophoresis on a polyester thread coupled with an endâ€channel pencil electrode detector. <i>Electrophoresis</i> , 2021, 42, 1974-1982.	2.4	1
3	A comprehensive review of conventional techniques and biosensor systems developed for in situ detection of vibrio cholerae. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116416.	11.4	3
4	Treating Polymicrobial Infections in Chronic Diabetic Wounds. <i>Clinical Microbiology Reviews</i> , 2019, 32, .	13.6	65
5	Biosample Concentration Using Microscale Forward Osmosis with Electrochemical Monitoring. <i>Analytical Chemistry</i> , 2019, 91, 7487-7494.	6.5	3
6	Bacterial Sample Concentration and Culture Monitoring Using a PEG-Based Osmotic System with Inline Impedance and Voltammetry Measurements. <i>Journal of Analysis and Testing</i> , 2019, 3, 166-174.	5.1	5
7	Electrochemical Detection of <i>Pseudomonas aeruginosa</i> in Polymicrobial Environments. <i>ChemistrySelect</i> , 2018, 3, 2926-2930.	1.5	24
8	Quantification of colloidal filtration of polystyrene micro-particles on glass substrate using a microfluidic device. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 381-387.	5.0	5
9	Electrochemical Probes of Microbial Community Behavior. <i>Annual Review of Analytical Chemistry</i> , 2018, 11, 441-461.	5.4	13
10	Electrochemical sensors for identifying pyocyanin production in clinical <i>Pseudomonas aeruginosa</i> isolates. <i>Biosensors and Bioelectronics</i> , 2017, 97, 65-69.	10.1	57
11	Microbial Identification Using Electrochemical Detection of Metabolites. <i>Trends in Biotechnology</i> , 2017, 35, 1125-1128.	9.3	20
12	Characterization of Bacterial Adhesion and Biofilm Formation. , 2017, , 67-95.		3
13	Electrochemical detection of <i>Pseudomonas</i> in wound exudate samples from patients with chronic wounds. <i>Wound Repair and Regeneration</i> , 2016, 24, 366-372.	3.0	49
14	SPRi-based adenovirus detection using a surrogate antibody method. <i>Biosensors and Bioelectronics</i> , 2015, 74, 808-814.	10.1	15
15	Improved monitoring of <i>P. aeruginosa</i> on agar plates. <i>Analytical Methods</i> , 2015, 7, 7150-7155.	2.7	10
16	Challenges of Biomolecular Detection at the Nanoscale: Nanopores and Microelectrodes. <i>Analytical Chemistry</i> , 2015, 87, 5470-5475.	6.5	27
17	Electrochemically monitoring the antibiotic susceptibility of <i>Pseudomonas aeruginosa</i> biofilms. <i>Analyst</i> , The, 2015, 140, 7195-7201.	3.5	40
18	Lubricin: A novel means to decrease bacterial adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 451-462.	4.0	25

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19	Surface plasmon resonance imaging (SPRi) for multiplexed evaluation of bacterial adhesion onto surface coatings. <i>Analytical Methods</i> , 2015, 7, 115-122.	2.7	22
20	Using surface plasmon resonance imaging to study bacterial biofilms. <i>Biomicrofluidics</i> , 2014, 8, 021804.	2.4	38
21	Cellular Analysis and Detection Using Surface Plasmon Resonance Techniques. <i>Analytical Chemistry</i> , 2014, 86, 2799-2812.	6.5	77
22	Up-regulating pyocyanin production by amino acid addition for early electrochemical identification of <i>Pseudomonas aeruginosa</i> . <i>Analyst</i> , The, 2014, 139, 4241-4246.	3.5	34
23	Electrochemical detection of <i>Pseudomonas aeruginosa</i> in human fluid samples via pyocyanin. <i>Biosensors and Bioelectronics</i> , 2014, 60, 265-270.	10.1	92
24	Isolation of Microorganisms Using Sub-Micrometer Constrictions. <i>PLoS ONE</i> , 2014, 9, e101429.	2.5	25
25	AMPEROMETRIC DETECTION OF PYOCYANIN IN NANOFUIDIC CHANNELS. <i>Nano LIFE</i> , 2013, 03, 1340011.	0.9	17
26	NANOTECHNOLOGY IN BIOLOGICAL DETECTION AND CHARACTERIZATION. <i>Nano LIFE</i> , 2013, 03, 1302001.	0.9	0
27	Hydrodynamic Voltammetry with Nanogap Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10913-10916.	3.1	26
28	Substrate-dependent kinetics in tyrosinase-based biosensing: amperometry vs. spectrophotometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1577-1584.	3.7	15
29	Electrochemical detection of pyocyanin in nanochannels with integrated palladium hydride reference electrodes. <i>Lab on A Chip</i> , 2012, 12, 5195.	6.0	51
30	Stochastic Sensing of Single Molecules in a Nanofluidic Electrochemical Device. <i>Nano Letters</i> , 2011, 11, 2881-2886.	9.1	129
31	Gold Nanoparticle-Based Biodetection for Chip-Based Portable Diagnosis Systems. <i>Journal of the Association for Laboratory Automation</i> , 2010, 15, 107-113.	2.8	4
32	Redox cycling in nanofluidic channels using interdigitated electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 447-456.	3.7	88
33	A microfluidic detection system based upon a surface immobilized biobarcode assay. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2397-2403.	10.1	35
34	Fast Electron-Transfer Kinetics Probed in Nanofluidic Channels. <i>Journal of the American Chemical Society</i> , 2009, 131, 11471-11477.	13.7	119
35	Electrochemical Correlation Spectroscopy in Nanofluidic Cavities. <i>Analytical Chemistry</i> , 2009, 81, 8203-8212.	6.5	62
36	Subcellular curvature at the perimeter of micropatterned cells influences lamellipodial distribution and cell polarity. <i>Cytoskeleton</i> , 2008, 65, 841-852.	4.4	96

#	ARTICLE	IF	CITATIONS
37	Microfluidic patterning of nanodisc lipid bilayers and multiplexed analysis of protein interaction. Lab on A Chip, 2008, 8, 1723.	6.0	31
38	Dip Pen Nanolithography Functionalized Electrical Gaps for Multiplexed DNA Detection. Analytical Chemistry, 2008, 80, 5899-5904.	6.5	17
39	A bio-barcode assay for on-chip attomolar-sensitivity protein detection. Lab on A Chip, 2006, 6, 1293.	6.0	199
40	Self-Associating Block Copolymer Networks for Microchip Electrophoresis Provide Enhanced DNA Separation via "Inchworm" Chain Dynamics. Analytical Chemistry, 2006, 78, 4409-4415.	6.5	22
41	Micromachined inking chip for scanning probe nanolithography using local thermal vapor inking method. Applied Physics Letters, 2006, 89, 173125.	3.3	3
42	Two-terminal longitudinal hotwire sensor for monitoring the position and speed of advancing liquid fronts in microfluidic channels. Applied Physics Letters, 2006, 88, 104104.	3.3	7
43	A modular microfluidic architecture for integrated biochemical analysis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9745-9750.	7.1	177
44	Microfluidic method for in-situ deposition and precision patterning of thin-film metals on curved surfaces. Applied Physics Letters, 2004, 85, 3629-3631.	3.3	27
45	Integrated microfluidic linking chip for scanning probe nanolithography. Applied Physics Letters, 2004, 85, 136-138.	3.3	30
46	Micro magnetic stir-bar mixer integrated with parylene microfluidic channels. Lab on A Chip, 2004, 4, 608.	6.0	205
47	Two-Terminal Longitudinal Hotwire Sensor for In-Line Monitoring of Sub-Nanoliter Volume in Microfluidic Channels. , 0, , .		1