

# Jeffrey S Erickson

## List of Publications by Year in descending order

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55  
papers

2,051  
citations

331670

21  
h-index

233421

45  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range electron transport in <i>Geobacter sulfurreducens</i> biofilms is redox gradient-driven. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15467-15472.	7.1	231
2	The good, the bad, and the tiny: a review of microflow cytometry. Analytical and Bioanalytical Chemistry, 2008, 391, 1485-1498.	3.7	216
3	Multi-wavelength microflow cytometer using groove-generated sheath flow. Lab on A Chip, 2009, 9, 1942.	6.0	140
4	Two simple and rugged designs for creating microfluidic sheath flow. Lab on A Chip, 2008, 8, 1097.	6.0	110
5	Thermally activated long range electron transport in living biofilms. Physical Chemistry Chemical Physics, 2015, 17, 32564-32570.	2.8	108
6	Multiplexed Detection of Bacteria and Toxins Using a Microflow Cytometer. Analytical Chemistry, 2009, 81, 5426-5432.	6.5	101
7	Measuring conductivity of living <i>Geobacter sulfurreducens</i> biofilms. Nature Nanotechnology, 2016, 11, 910-913.	31.5	99
8	Design and Fabrication of Gecko-Inspired Adhesives. Langmuir, 2012, 28, 5737-5742.	3.5	90
9	Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko. Advanced Functional Materials, 2014, 24, 574-579.	14.9	86
10	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. Nano Letters, 2015, 15, 6848-6854.	9.1	85
11	Optofluidic characterization of marine algae using a microflow cytometer. Biomicrofluidics, 2011, 5, 32009-320099.	2.4	79
12	A simple sheath-flow microfluidic device for micro/nanomanufacturing: fabrication of hydrodynamically shaped polymer fibers. Lab on A Chip, 2009, 9, 3126.	6.0	76
13	Microflow Cytometer for optical analysis of phytoplankton. Biosensors and Bioelectronics, 2011, 26, 4263-4269.	10.1	69
14	Evidence that the Induction Time in the Surface Pressure Evolution of Lysozyme Solutions Is Caused by a Surface Phase Transition. Langmuir, 2000, 16, 5072-5078.	3.5	64
15	Synthetic Biology Tools for the Fast-Growing Marine Bacterium <i>Vibrio natriegens</i> . ACS Synthetic Biology, 2019, 8, 2069-2079.	3.8	60
16	Sweet Substrate: A Polysaccharide Nanocomposite for Conformal Electronic Decals. Advanced Materials, 2015, 27, 1600-1606.	21.0	41
17	<i>In Situ</i> Phytoplankton Analysis: There's Plenty of Room at the Bottom. Analytical Chemistry, 2012, 84, 839-850.	6.5	39
18	Catch and Release: Integrated System for Multiplexed Detection of Bacteria. Analytical Chemistry, 2013, 85, 4944-4950.	6.5	34

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19	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. <i>Lab on A Chip</i> , 2010, 10, 1952.	6.0	31
20	Machine Learning Techniques for Chemical Identification Using Cyclic Square Wave Voltammetry. <i>Sensors</i> , 2019, 19, 2392.	3.8	31
21	Home diagnostics to music. <i>Nature</i> , 2008, 456, 178-179.	27.8	22
22	Contact angles on surfaces using mean field theory: nanodroplets vs. nanoroughness. <i>Nanoscale</i> , 2014, 6, 5260-5269.	5.6	21
23	A Simple and Inexpensive Electrochemical Assay for the Identification of Nitrogen Containing Explosives in the Field. <i>Sensors</i> , 2017, 17, 1769.	3.8	20
24	Lattice gas 2D/3D equilibria: Chemical potentials and adsorption isotherms with correct critical points. <i>Journal of Chemical Physics</i> , 2004, 120, 5208-5216.	3.0	17
25	Electron Transport through Early Exponentialâ€Phase Anodeâ€Grown <i>Geobacter sulfurreducens</i> Biofilms. <i>ChemElectroChem</i> , 2014, 1, 1957-1965.	3.4	17
26	Diagnosis on disc. <i>Nature</i> , 2006, 440, 159-160.	27.8	14
27	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. <i>Analytical Letters</i> , 2007, 40, 3219-3231.	1.8	14
28	Hybrid Liquid Crystal Nanocarriers for Enhanced Zinc Phthalocyanine-Mediated Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2018, 29, 2701-2714.	3.6	14
29	Load-Induced Hydrodynamic Lubrication of Porous Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17587-17591.	8.0	13
30	A simple model for ordering in adsorbed layers. <i>Molecular Physics</i> , 2002, 100, 2121-2137.	1.7	11
31	Miniaturized reflectance devices for chemical sensing. <i>Measurement Science and Technology</i> , 2014, 25, 095101.	2.6	11
32	Monte Carlo simulations on the effect of substrate geometry on adsorption and compression. <i>Journal of Chemical Physics</i> , 2004, 120, 11765-11774.	3.0	10
33	Reflectance-based detection of oxidizers in ambient air. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 399-402.	7.8	9
34	Characterizing Electron Transport through Living Biofilms. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	8
35	Adhesives: Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko ( <i>Adv. Funct. Mater.</i> ) Tj ETQq1 1 0.784314 rgBJ /Overlo 14.9 7	14.9	7
36	Development of a Colorimetric Sensor for Autonomous, Networked, Real-Time Application. <i>Sensors</i> , 2020, 20, 5857.	3.8	7

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37	Solution Microstructure of Confined Fluids with Directional Interactions under the Influence of an External Field: Mean Field Considerations. <i>Molecular Simulation</i> , 2004, 30, 507-520.	2.0	5
38	Development of a Detection Algorithm for Use with Reflectance-Based, Real-Time Chemical Sensing. <i>Sensors</i> , 2016, 16, 1927.	3.8	4
39	Reflectance-based detection for long term environmental monitoring. <i>Heliyon</i> , 2017, 3, e00312.	3.2	4
40	Multilayer Epitaxial Graphene on Silicon Carbide: A Stable Working Electrode for Seawater Samples Spiked with Environmental Contaminants. <i>Sensors</i> , 2020, 20, 4006.	3.8	4
41	A microflow cytometer for optical analysis of phytoplankton. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
42	Automated module for hybridization and staining of commercially produced nucleic acid microarrays. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 623-628.	2.2	2
43	A Parametric Study of Sample Lysis and DNA Purification Techniques for Use in Automated Devices. <i>Analytical Letters</i> , 2008, 41, 1701-1719.	1.8	1
44	Microflow cytometer. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
45	Reconfigurable acquisition system with integrated optics for a portable flow cytometer. <i>Review of Scientific Instruments</i> , 2013, 84, 115109.	1.3	1
46	Electrochemical Detection with Preconcentration: Nitroenergetic Contaminants. <i>Chemosensors</i> , 2014, 2, 131-144.	3.6	1
47	Imaging cellular membrane potential through ionization of quantum dots. , 2016, , .		1
48	Field Demonstration of a Distributed Microsensor Network for Chemical Detection. <i>Sensors</i> , 2020, 20, 5424.	3.8	1
49	The beadwhacker for maintaining even dispersion of micron-sized beads. <i>Measurement Science and Technology</i> , 2007, 18, N1-N4.	2.6	0
50	Components for automated microfluidics sample preparation and analysis. , 2008, , .		0
51	Nanocomposites: Sweet Substrate: A Polysaccharide Nanocomposite for Conformal Electronic Decals ( <i>Adv. Mater.</i> 9/2015). <i>Advanced Materials</i> , 2015, 27, 1636-1636.	21.0	0
52	Nanoparticle-Surface Interactions in Geometrical Separation Devices. <i>Chromatography (Basel)</i> , 2015, 2, 567-579.	1.2	0
53	Multiplexed, Optical Reflectance Data in Chemical Detection. , 2019, , .		0
54	Microflow Cytometer Electronics. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Environmental Chemical and Biological Sensing Using Colorimetric Arrays. ECS Meeting Abstracts, 2020, MA2020-01, 2268-2268.	0.0	0