

# David Carl Erickson

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3173385/david-carl-erickson-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171  
papers

9,270  
citations

50  
h-index

93  
g-index

226  
ext. papers

10,822  
ext. citations

6.3  
avg, IF

6.5  
L-index

#	Paper	IF	Citations
171	Optical manipulation of nanoparticles and biomolecules in sub-wavelength slot waveguides. <i>Nature</i> , <b>2009</b> , 457, 71-5	50.4	564
170	Integrated microfluidic devices. <i>Analytica Chimica Acta</i> , <b>2004</b> , 507, 11-26	6.6	530
169	Zeta-potential measurement using the Smoluchowski equation and the slope of the current-time relationship in electroosmotic flow. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 261, 402-10	9.3	512
168	Smartphone based health accessory for colorimetric detection of biomarkers in sweat and saliva. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3232-8	7.2	281
167	Influence of Surface Heterogeneity on Electrokinetically Driven Microfluidic Mixing. <i>Langmuir</i> , <b>2002</b> , 18, 1883-1892	4	231
166	Optofluidics for energy applications. <i>Nature Photonics</i> , <b>2011</b> , 5, 583-590	33.9	223
165	Joule heating and heat transfer in poly(dimethylsiloxane) microfluidic systems. <i>Lab on A Chip</i> , <b>2003</b> , 3, 141-9	7.2	221
164	Nanoscale optofluidic sensor arrays. <i>Optics Express</i> , <b>2008</b> , 16, 1623-31	3.3	206
163	Nanomanipulation using silicon photonic crystal resonators. <i>Nano Letters</i> , <b>2010</b> , 10, 99-104	11.5	198
162	Heterogeneous surface charge enhanced micromixing for electrokinetic flows. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 3208-13	7.8	196
161	Optofluidic microscopy--a method for implementing a high resolution optical microscope on a chip. <i>Lab on A Chip</i> , <b>2006</b> , 6, 1274-6	7.2	190
160	Nanomanipulation using near field photonics. <i>Lab on A Chip</i> , <b>2011</b> , 11, 995-1009	7.2	187
159	Cholesterol testing on a smartphone. <i>Lab on A Chip</i> , <b>2014</b> , 14, 759-63	7.2	183
158	Nanofluidic tuning of photonic crystal circuits. <i>Optics Letters</i> , <b>2006</b> , 31, 59-61	3	177
157	Nanobiosensors: optofluidic, electrical and mechanical approaches to biomolecular detection at the nanoscale. <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 4, 33-52	2.8	174
156	Optofluidic trapping and transport on solid core waveguides within a microfluidic device. <i>Optics Express</i> , <b>2007</b> , 15, 14322-34	3.3	173
155	Optofluidic ring resonator switch for optical particle transport. <i>Lab on A Chip</i> , <b>2010</b> , 10, 769-74	7.2	164

154	Surface enhanced Raman spectroscopy and its application to molecular and cellular analysis. <i>Microfluidics and Nanofluidics</i> , <b>2009</b> , 6, 285-297	2.8	159
153	A smartphone platform for the quantification of vitamin D levels. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1437-42	7.2	144
152	Controlled photonic manipulation of proteins and other nanomaterials. <i>Nano Letters</i> , <b>2012</b> , 12, 1633-7	11.5	142
151	Smartphone technology can be transformative to the deployment of lab-on-chip diagnostics. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3159-64	7.2	135
150	Modeling of DNA hybridization kinetics for spatially resolved biochips. <i>Analytical Biochemistry</i> , <b>2003</b> , 317, 186-200	3.1	135
149	Towards numerical prototyping of labs-on-chip: modeling for integrated microfluidic devices. <i>Microfluidics and Nanofluidics</i> , <b>2005</b> , 1, 301-318	2.8	129
148	A method for nanofluidic device prototyping using elastomeric collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 15549-54	11.5	126
147	A multiplexed optofluidic biomolecular sensor for low mass detection. <i>Lab on A Chip</i> , <b>2009</b> , 9, 2924-32	7.2	119
146	Optofluidic waveguides for reconfigurable photonic systems. <i>Optics Express</i> , <b>2011</b> , 19, 8602-9	3.3	118
145	Electrokinetically controlled DNA hybridization microfluidic chip enabling rapid target analysis. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7269-77	7.8	93
144	Enhanced on-chip SERS based biomolecular detection using electrokinetically active microwells. <i>Lab on A Chip</i> , <b>2009</b> , 9, 433-9	7.2	91
143	Large area flexible SERS active substrates using engineered nanostructures. <i>Nanoscale</i> , <b>2011</b> , 3, 2903-8	7.7	85
142	Analysis of Alternating Current Electroosmotic Flows in a Rectangular Microchannel. <i>Langmuir</i> , <b>2003</b> , 19, 5421-5430	4	85
141	Forces and transport velocities for a particle in a slot waveguide. <i>Nano Letters</i> , <b>2009</b> , 9, 1182-8	11.5	84
140	Solar thermal polymerase chain reaction for smartphone-assisted molecular diagnostics. <i>Scientific Reports</i> , <b>2014</b> , 4, 4137	4.9	79
139	Elucidating mechanical transition effects of invading cancer cells with a subnucleus-scaled microfluidic serial dimensional modulation device. <i>Lab on A Chip</i> , <b>2013</b> , 13, 340-8	7.2	77
138	Surface-enhanced Raman scattering based ligase detection reaction. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2208-13	16.4	77
137	An Improved Method of Determining the zeta-Potential and Surface Conductance. <i>Journal of Colloid and Interface Science</i> , <b>2000</b> , 232, 186-197	9.3	76

136	Electrokinetic microfluidic devices for rapid, low power drug delivery in autonomous microsystems. <i>Lab on A Chip</i> , <b>2008</b> , 8, 330-8	7.2	73
135	Multiplexed colorimetric detection of Kaposi's sarcoma associated herpesvirus and Bartonella DNA using gold and silver nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 1678-86	7.7	71
134	Microchannel Flow with Patchwise and Periodic Surface Heterogeneity. <i>Langmuir</i> , <b>2002</b> , 18, 8949-8959	4	65
133	Electrokinetically based approach for single-nucleotide polymorphism discrimination using a microfluidic device. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 4000-7	7.8	64
132	High resolution reversible color images on photonic crystal substrates. <i>Langmuir</i> , <b>2011</b> , 27, 9676-80	4	63
131	Two-Color Lateral Flow Assay for Multiplex Detection of Causative Agents Behind Acute Febrile Illnesses. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8359-63	7.8	63
130	Microfabricated physical spatial gradients for investigating cell migration and invasion dynamics. <i>PLoS ONE</i> , <b>2011</b> , 6, e20825	3.7	62
129	High volumetric power density, non-enzymatic, glucose fuel cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1226	4.9	58
128	Gel-based optical waveguides with live cell encapsulation and integrated microfluidics. <i>Optics Letters</i> , <b>2012</b> , 37, 1472-4	3	58
127	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 093003	1.7	55
126	Optofluidic opportunities in global health, food, water and energy. <i>Nanoscale</i> , <b>2012</b> , 4, 4839-57	7.7	54
125	Streaming Potential and Streaming Current Methods for Characterizing Heterogeneous Solid Surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 237, 283-289	9.3	54
124	Mitigating the Hook Effect in Lateral Flow Sandwich Immunoassays Using Real-Time Reaction Kinetics. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5095-5100	7.8	53
123	A serial micropipette microfluidic device with applications to cancer cell repeated deformation studies. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 1374-84	3.7	52
122	Electrophoretic Motion of a Circular Cylindrical Particle in a Circular Cylindrical Microchannel. <i>Langmuir</i> , <b>2002</b> , 18, 9095-9101	4	51
121	NutriPhone: a mobile platform for low-cost point-of-care quantification of vitamin B12 concentrations. <i>Scientific Reports</i> , <b>2016</b> , 6, 28237	4.9	49
120	A microfabricated low cost enzyme-free glucose fuel cell for powering low-power implantable devices. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9169-9175	8.9	49
119	Multiplex single nucleotide polymorphism genotyping utilizing ligase detection reaction coupled surface enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5810-4	7.8	49

118	Aptamer based surface enhanced Raman scattering detection of vasopressin using multilayer nanotube arrays. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1240-3	11.8	49
117	Stability analysis of optofluidic transport on solid-core waveguiding structures. <i>Nanotechnology</i> , <b>2008</b> , 19, 045704	3.4	49
116	Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. <i>Nature Communications</i> , <b>2019</b> , 10, 4185	17.4	48
115	A robust, electrochemically driven microwell drug delivery system for controlled vasopressin release. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 861-7	3.7	48
114	Bioconjugation techniques for microfluidic biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 469-79	4.4	46
113	Three-Dimensional Structure of Electroosmotic Flow over Heterogeneous Surfaces. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12212-12220	3.4	46
112	Redox mediated photocatalytic water-splitting in optofluidic microreactors. <i>Lab on A Chip</i> , <b>2013</b> , 13, 409-14	7.2	45
111	A plate-frame flow-through microfluidic fuel cell stack. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9481-9487	8.9	45
110	Size-selective concentration and label-free characterization of protein aggregates using a Raman active nanofluidic device. <i>Lab on A Chip</i> , <b>2011</b> , 11, 632-8	7.2	44
109	A miniaturized high-voltage integrated power supply for portable microfluidic applications. <i>Lab on A Chip</i> , <b>2004</b> , 4, 87-90	7.2	42
108	Ultra-sensitive, label-free probing of the conformational characteristics of amyloid beta aggregates with a SERS active nanofluidic device. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 12, 663-669	2.8	41
107	ironPhone: Mobile device-coupled point-of-care diagnostics for assessment of iron status by quantification of serum ferritin. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 115-121	11.8	40
106	Dynamically programmable fluidic assembly. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 254105	3.4	40
105	Optofluidic transport in liquid core waveguiding structures. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 184103	3.4	40
104	Detection of Kaposi's sarcoma associated herpesvirus nucleic acids using a smartphone accessory. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3809-16	7.2	38
103	DNA transport and delivery in thermal gradients near optofluidic resonators. <i>Physical Review Letters</i> , <b>2012</b> , 108, 048102	7.4	38
102	A portable device for nucleic acid quantification powered by sunlight, a flame or electricity. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 657-665	19	37
101	Hydrodynamic optical alignment for microflow cytometry. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1138-43	7.2	34

100	Development of a novel microfluidic immunoassay for the detection of <i>Helicobacter pylori</i> infection. <i>Analyst, The</i> , <b>2004</b> , 129, 823-8	5	33
99	Stacked optical waveguide photobioreactor for high density algal cultures. <i>Bioresource Technology</i> , <b>2014</b> , 171, 495-9	11	32
98	Nanophotonic detection of freely interacting molecules on a single influenza virus. <i>Scientific Reports</i> , <b>2015</b> , 5, 12087	4.9	32
97	Rapid diagnostic testing platform for iron and vitamin A deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13513-13518	11.5	31
96	Slab waveguide photobioreactors for microalgae based biofuel production. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3740-5	7.5	31
95	Stochastic Modular Robotic Systems: A Study of Fluidic Assembly Strategies. <i>IEEE Transactions on Robotics</i> , <b>2010</b> , 26, 518-530	6.5	30
94	Label-free electrochemical monitoring of vasopressin in aptamer-based microfluidic biosensors. <i>Analytica Chimica Acta</i> , <b>2013</b> , 759, 74-80	6.6	29
93	Point of care technologies for sepsis diagnosis and treatment. <i>Lab on A Chip</i> , <b>2019</b> , 19, 728-737	7.2	27
92	Optothermorheological flow manipulation. <i>Optics Letters</i> , <b>2009</b> , 34, 1976-8	3	27
91	Nanoporous polymer ring resonators for biosensing. <i>Optics Express</i> , <b>2012</b> , 20, 245-55	3.3	26
90	Cationic polymer coatings for design of electroosmotic flow and control of DNA adsorption. <i>Analytica Chimica Acta</i> , <b>2004</b> , 507, 55-62	6.6	26
89	Nanophotonic force microscopy: characterizing particle-surface interactions using near-field photonics. <i>Nano Letters</i> , <b>2015</b> , 15, 1414-20	11.5	25
88	Angular orientation of nanorods using nanophotonic tweezers. <i>Nano Letters</i> , <b>2012</b> , 12, 6400-7	11.5	25
87	KS-Detect - Validation of Solar Thermal PCR for the Diagnosis of Kaposi's Sarcoma Using Pseudo-Biopsy Samples. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147636	3.7	23
86	High-yield paper-based quantitative blood separation system. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3865-3871	7.2	23
85	A multistage elastocaloric refrigerator and heat pump with 28 K temperature span. <i>Scientific Reports</i> , <b>2019</b> , 9, 18532	4.9	22
84	Electroactive nanoparticle directed assembly of functionalized graphene nanosheets into hierarchical structures with hybrid compositions for flexible supercapacitors. <i>Nanoscale</i> , <b>2013</b> , 5, 3976-81	7.7	21
83	Ionic strength-dependent pK shift in the helix-coil transition of grafted poly(L-glutamic acid) layers analyzed by electrokinetic and ellipsometric measurements. <i>Langmuir</i> , <b>2004</b> , 20, 2369-74	4	20

82	Numerical simulations of a low power microchannel thermal cycling reactor. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 3759-3770	4.9	20
81	Rapid Diagnostic Platform for Colorimetric Differential Detection of Dengue and Chikungunya Viral Infections. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5415-5423	7.8	19
80	Optimal intensity and biomass density for biofuel production in a thin-light-path photobioreactor. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6327-34	10.3	19
79	Mechanical decision trees for investigating and modulating single-cell cancer invasion dynamics. <i>Lab on A Chip</i> , <b>2014</b> , 14, 964-71	7.2	19
78	Engineering insect flight metabolics using immature stage implanted microfluidics. <i>Lab on A Chip</i> , <b>2009</b> , 9, 669-76	7.2	19
77	Nutrilyzer <b>2016</b> ,		19
76	Engineered surface scatterers in edge-lit slab waveguides to improve light delivery in algae cultivation. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 6, A1526-37	3.3	18
75	Evanescent photosynthesis: exciting cyanobacteria in a surface-confined light field. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 4817-23	3.6	18
74	Hydrodynamically tunable affinities for fluidic assembly. <i>Langmuir</i> , <b>2009</b> , 25, 3769-74	4	18
73	Trapping and storage of particles in electroactive microwells. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 024102	3.4	18
72	Personalized nutrition diagnostics at the point-of-need. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2408-17	7.2	17
71	An energy balance approach to modeling the hydrodynamically driven spreading of a liquid drop. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2001</b> , 182, 109-122	5.1	17
70	A two-colour multiplexed lateral flow immunoassay system to differentially detect human malaria species on a single test line. <i>Malaria Journal</i> , <b>2019</b> , 18, 313	3.6	16
69	Photo-injection based sample design and electroosmotic transport in microchannels. <i>Journal of Micromechanics and Microengineering</i> , <b>2002</b> , 12, 898-904	2	15
68	Precision nutrition - review of methods for point-of-care assessment of nutritional status. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 44, 103-108	11.4	14
67	Light-governed capillary flow in microfluidic systems. <i>Small</i> , <b>2013</b> , 9, 107-14	11	14
66	Rapid prototyping of nanofluidic systems using size-reduced electrospun nanofibers for biomolecular analysis. <i>Small</i> , <b>2010</b> , 6, 2420-6	11	14
65	Implantable microfluidic and electronic systems for insect flight manipulation. <i>Microfluidics and Nanofluidics</i> , <b>2012</b> , 13, 345-352	2.8	13

64	Optically induced microfluidic reconfiguration. <i>Lab on A Chip</i> , <b>2012</b> , 12, 613-21	7.2	13
63	Integrated hollow fiber membranes for gas delivery into optical waveguide based photobioreactors. <i>Bioresource Technology</i> , <b>2015</b> , 192, 845-9	11	12
62	Simultaneous Characterization of Nanoparticle Size and Particle-Surface Interactions with Three-Dimensional Nanophotonic Force Microscopy. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	12
61	A point-of-care assay for alpha-1-acid glycoprotein as a diagnostic tool for rapid, mobile-based determination of inflammation. <i>Current Research in Biotechnology</i> , <b>2019</b> , 1, 41-48	4.8	11
60	A novel polymer microneedle fabrication process for active fluidic delivery. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 785-791	2.8	11
59	Special issue on Optofluidics <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 4, 1-2	2.8	11
58	H.E.R.M.E.S: rapid blood-plasma separation at the point-of-need. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3285-3292	7.2	11
57	Current state of the art in rapid diagnostics for antimicrobial resistance. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2607-2625		10
56	Lab-on-a-bird: biophysical monitoring of flying birds. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123947	3.7	10
55	Self-assembled photonic-plasmonic nanotweezers for directed self-assembly of hybrid nanostructures. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 043112	3.4	10
54	A micropillar array for sample concentration via in-plane evaporation. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 044108	3.2	10
53	Directed self-assembly of microcomponents enabled by laser-activated bubble latching. <i>Langmuir</i> , <b>2011</b> , 27, 11259-64	4	10
52	Hydrodynamically driven docking of blocks for 3D fluidic assembly. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 551-558	2.8	10
51	Personalized stress monitoring: a smartphone-enabled system for quantification of salivary cortisol. <i>Personal and Ubiquitous Computing</i> , <b>2018</b> , 22, 867-877	2.1	9
50	Near-field Light Scattering Techniques for Measuring Nanoparticle-Surface Interaction Energies and Forces. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 3494-3502	4	9
49	Biopatterning for label-free detection. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 76, 375-80	6	9
48	An experimental investigation into the dimension-sensitive viscosity of polymer containing lubricant oils in microchannels. <i>Experimental Thermal and Fluid Science</i> , <b>2002</b> , 25, 623-630	3	9
47	Rapid diagnostics for point-of-care quantification of soluble transferrin receptor. <i>EBioMedicine</i> , <b>2019</b> , 42, 504-510	8.8	8



46	HI-Light: A Glass-Waveguide-Based "Shell-and-Tube" Photothermal Reactor Platform for Converting CO to Fuels. <i>iScience</i> , <b>2020</b> , 23, 101856	6.1	8
45	Hollow fibre membrane arrays for CO <sub>2</sub> delivery in microalgae photobioreactors. <i>RSC Advances</i> , <b>2014</b> , 4, 1460-1468	3.7	8
44	In situ hollow fiber membrane facilitated CO <sub>2</sub> delivery to a cyanobacterium for enhanced productivity. <i>RSC Advances</i> , <b>2013</b> , 3, 13203	3.7	8
43	Orthogonal Nanoparticle Size, Polydispersity, and Stability Characterization with Near-Field Optical Trapping and Light Scattering. <i>ACS Photonics</i> , <b>2017</b> , 4, 106-113	6.3	7
42	cAST: Capillary-Based Platform for Real-Time Phenotypic Antimicrobial Susceptibility Testing. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2731-2738	7.8	7
41	Solar-thermal complex sample processing for nucleic acid based diagnostics in limited resource settings. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1974-84	3.5	7
40	Evaluation of Unmanned Aerial Vehicles and Neural Networks for Integrated Mosquito Management of <i>Aedes albopictus</i> (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , <b>2020</b> , 57, 1588-1595	3.2	6
39	Continuous operation of a hybrid solid-liquid state reconfigurable photonic system without resupply of liquids. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2575-9	7.2	6
38	Increased robustness for fluidic self-assembly. <i>Physics of Fluids</i> , <b>2008</b> , 20, 073304	4.4	6
37	Analysis of liquid-to-solid coupling and other performance parameters for microfluidically reconfigurable photonic systems. <i>Optics Express</i> , <b>2010</b> , 18, 10973-84	3.3	5
36	Enhancing the Usability of an Optical Reader System to Support Point-of-Care Rapid Diagnostic Testing: An Iterative Design Approach. <i>JMIR Human Factors</i> , <b>2017</b> , 4, e29	2.5	5
35	Electroactive micro and nanowells for optofluidic storage. <i>Optics Express</i> , <b>2009</b> , 17, 21134-48	3.3	4
34	Stacked waveguide reactors with gradient embedded scatterers for high-capacity water cleaning. <i>Optics Express</i> , <b>2015</b> , 23, A1664-71	3.3	3
33	Nanoscale optofluidic sensor arrays for Dengue virus detection <b>2007</b> ,		3
32	Optofluidics <b>2005</b> , 5908, 231		3
31	Fluorescence lateral flow competitive protein binding assay for the assessment of serum folate concentrations. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217403	3.7	2
30	Dynamics of an optically confined nanoparticle diffusing normal to a surface. <i>Physical Review E</i> , <b>2016</b> , 93, 062139	2.4	2
29	In situ UV disinfection of a waveguide-based photobioreactor. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 11521-6	10.3	2

28	Optically Resonant Nanophotonic Devices for Label-Free Biomolecular Detection. <i>Integrated Analytical Systems</i> , <b>2009</b> , 445-470	0.4	2
27	Vitamin A status, inflammation adjustment, and immunologic response in the context of acute febrile illness: A pilot cohort study among pediatric patients. <i>Clinical Nutrition</i> , <b>2021</b> , 40, 2837-2844	5.9	2
26	Paper-Based Semi-quantitative Antimicrobial Susceptibility Testing. <i>ACS Omega</i> , <b>2021</b> , 6, 1410-1414	3.9	2
25	Holographic diagnosis of lymphoma. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 631-632	19	2
24	Early Warning Diagnostics for Emerging Infectious Diseases in Developing into Late-Stage Pandemics. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3656-3666	24.3	2
23	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications.. <i>Journal of Biomolecular Techniques</i> , <b>2021</b> , 32, 228-275	1.1	2
22	Rainer Gross Award Lecture 2016: A Laboratory in Your Pocket: Enabling Precision Nutrition. <i>Food and Nutrition Bulletin</i> , <b>2017</b> , 38, 140-145	1.8	1
21	Localized opto-mechanical control of protein adsorption onto carbon nanotubes. <i>Scientific Reports</i> , <b>2014</b> , 4, 6707	4.9	1
20	Optomechanical manipulation of chemical reactions on the nanoscale with optofluidic nanotweezers <b>2014</b> ,		1
19	Creating optically reconfigurable channel based microfluidic systems <b>2011</b> ,		1
18	Agarose gel optical waveguides with encapsulation of live cells and integrated microfluidics <b>2012</b> ,		1
17	Highly portable quantitative screening test for prostate-specific antigen at point of care.. <i>Current Research in Biotechnology</i> , <b>2021</b> , 3, 288-299	4.8	1
16	Engineering waveguide surface by gradient etching for uniform light scattering in photocatalytic applications. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 8, 100192	3.6	1
15	Optofluidics. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2010</b> , 529-551	0.1	1
14	Two-Color Duplex Platform for Point-of-Care Differential Detection of Malaria and Typhoid Fever. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 12175-12180	7.8	1
13	An isothermal amplification-based point-of-care diagnostic platform for the detection of : A proof-of-concept study. <i>Current Research in Biotechnology</i> , <b>2021</b> , 3, 154-159	4.8	1
12	A diagnostic platform for rapid, simultaneous quantification of procalcitonin and C-reactive protein in human serum.. <i>EBioMedicine</i> , <b>2022</b> , 76, 103867	8.8	0
11	Visible colorimetric growth indicators of Neisseria gonorrhoeae for low-cost diagnostic applications. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252961	3.7	0

- 10 A Rapid, Isothermal, and Point-of-Care System for COVID-19 Diagnostics.. *Journal of Biomolecular Techniques*, **2021**, 32, 221-227 1.1 0
- 9 An energy-flexible mechanism for qPCR thermal cycling using shape memory alloys. *Smart Materials and Structures*, **2020**, 29, 045038 3-4
- 8 Autonomous device for application in late-phase hemorrhagic shock prevention. *PLoS ONE*, **2014**, 9, e89903 3
- 7 Optofluidically driven micro- and nano-fluidic devices **2006**, 6329, 80
- 6 Optofluidic Transport: Optical Waveguides as Microfluidic Train Tracks **2007**, 815
- 5 Micro and Nanofluidic Transport Using Advanced Photonic Devices **2006**, 117
- 4 A DNA Hybridization Chip With Electrokinetically-Based Single Nucleotide Polymorphism (SNP) Discrimination **2004**, 271
- 3 Vivo-Fluidics and Programmable Matter. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2010**, 553-576 0.1
- 2 Introduction to Microfluidic and Optofluidic Transport **2010**, 1-1-1-22
- 1 Electroosmotic Flow over Heterogeneous Surfaces **2014**, 1-11