David Carl Erickson

List of Publications by Year
in descending order

223	11,653	30070 54	30087 103
papers	citations	h-index	g-index

226	226	226	11739
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical manipulation of nanoparticles and biomolecules in sub-wavelength slot waveguides. Nature, 2009, 457, 71-75.	27.8	744
2	Integrated microfluidic devices. Analytica Chimica Acta, 2004, 507, 11-26.	5.4	635
3	Zeta-potential measurement using the Smoluchowski equation and the slope of the currentâ€“time relationship in electroosmotic flow. Journal of Colloid and Interface Science, 2003, 261, 402-410.	9.4	626
4	Smartphone based health accessory for colorimetric detection of biomarkers in sweat and saliva. Lab on A Chip, 2013, 13, 3232.	6.0	327
5	Nanoscale optofluidic sensor arrays. Optics Express, 2008, 16, 1623.	3.4	275
6	Influence of Surface Heterogeneity on Electrokinetically Driven Microfluidic Mixing. Langmuir, 2002, 18, 1883-1892.	3.5	273
7	Optofluidic microscopyâ€”a method for implementing a high resolution optical microscope on a chip. Lab on A Chip, 2006, 6, 1274-1276.	6.0	272
8	Optofluidics for energy applications. Nature Photonics, 2011, 5, 583-590.	31.4	266
9	Nanomanipulation Using Silicon Photonic Crystal Resonators. Nano Letters, 2010, 10, 99-104.	9.1	265
10	Joule heating and heat transfer in poly(dimethylsiloxane) microfluidic systems. Lab on A Chip, 2003, 3, 141.	6.0	261
11	Optofluidic ring resonator switch for optical particle transport. Lab on A Chip, 2010, 10, 769.	6.0	257
12	Heterogeneous Surface Charge Enhanced Micromixing for Electrokinetic Flows. Analytical Chemistry, 2004, 76, 3208-3213.	6.5	252
13	Optofluidic trapping and transport on solid core waveguides within a microfluidic device. Optics Express, 2007, 15, 14322.	3.4	242
14	Nanofluidic tuning of photonic crystal circuits. Optics Letters, 2006, 31, 59.	3.3	235
15	Nanomanipulation using near field photonics. Lab on A Chip, 2011, 11, 995.	6.0	231
16	Nanobiosensors: optofluidic, electrical and mechanical approaches to biomolecular detection at the nanoscale. Microfluidics and Nanofluidics, 2008, 4, 33-52.	2.2	219
17	Cholesterol testing on a smartphone. Lab on A Chip, 2014, 14, 759-763.	6.0	211
18	Optofluidic waveguides for reconfigurable photonic systems. Optics Express, 2011, 19, 8602.	3.4	190

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19	Surface enhanced Raman spectroscopy and its application to molecular and cellular analysis. Microfluidics and Nanofluidics, 2009, 6, 285-297.	2.2	186
20	Controlled Photonic Manipulation of Proteins and Other Nanomaterials. Nano Letters, 2012, 12, 1633-1637.	9.1	176
21	A smartphone platform for the quantification of vitamin D levels. Lab on A Chip, 2014, 14, 1437-1442.	6.0	169
22	Smartphone technology can be transformative to the deployment of lab-on-chip diagnostics. Lab on A Chip, 2014, 14, 3159-3164.	6.0	162
23	Modeling of DNA hybridization kinetics for spatially resolved biochips. Analytical Biochemistry, 2003, 317, 186-200.	2.4	150
24	Towards numerical prototyping of labs-on-chip: modeling for integrated microfluidic devices. Microfluidics and Nanofluidics, 2005, 1, 301-318.	2.2	149
25	A multiplexed optofluidic biomolecular sensor for low mass detection. Lab on A Chip, 2009, 9, 2924.	6.0	143
26	A method for nanofluidic device prototyping using elastomeric collapse. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15549-15554.	7.1	141
27	Forces and Transport Velocities for a Particle in a Slot Waveguide. Nano Letters, 2009, 9, 1182-1188.	9.1	109
28	Enhanced on-chip SERS based biomolecular detection using electrokinetically active microwells. Lab on A Chip, 2009, 9, 433-439.	6.0	103
29	Electrokinetically Controlled DNA Hybridization Microfluidic Chip Enabling Rapid Target Analysis. Analytical Chemistry, 2004, 76, 7269-7277.	6.5	101
30	Analysis of Alternating Current Electroosmotic Flows in a Rectangular Microchannel. Langmuir, 2003, 19, 5421-5430.	3.5	95
31	Solar thermal polymerase chain reaction for smartphone-assisted molecular diagnostics. Scientific Reports, 2015, 4, 4137.	3.3	92
32	Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. Nature Communications, 2019, 10, 4185.	12.8	92
33	Large area flexible SERS active substrates using engineered nanostructures. Nanoscale, 2011, 3, 2903.	5.6	91
34	Elucidating mechanical transition effects of invading cancer cells with a subnucleus-scaled microfluidic serial dimensional modulation device. Lab on A Chip, 2013, 13, 340-348.	6.0	89
35	An Improved Method of Determining the Î¶-Potential and Surface Conductance. Journal of Colloid and Interface Science, 2000, 232, 186-197.	9.4	86
36	Electrokinetic microfluidic devices for rapid, low power drug delivery in autonomous microsystems. Lab on A Chip, 2008, 8, 330-338.	6.0	85

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37	Surface-Enhanced Raman Scattering Based Ligase Detection Reaction. Journal of the American Chemical Society, 2009, 131, 2208-2213.	13.7	83
38	Multiplexed colorimetric detection of Kaposi's sarcoma associated herpesvirus and Bartonella DNA using gold and silver nanoparticles. Nanoscale, 2013, 5, 1678.	5.6	83
39	Electrokinetically Based Approach for Single-Nucleotide Polymorphism Discrimination Using a Microfluidic Device. Analytical Chemistry, 2005, 77, 4000-4007.	6.5	79
40	Two-Color Lateral Flow Assay for Multiplex Detection of Causative Agents Behind Acute Febrile Illnesses. Analytical Chemistry, 2016, 88, 8359-8363.	6.5	78
41	Roadmap for optofluidics. Journal of Optics (United Kingdom), 2017, 19, 093003.	2.2	78
42	Gel-based optical waveguides with live cell encapsulation and integrated microfluidics. Optics Letters, 2012, 37, 1472.	3.3	76
43	Mitigating the Hook Effect in Lateral Flow Sandwich Immunoassays Using Real-Time Reaction Kinetics. Analytical Chemistry, 2017, 89, 5095-5100.	6.5	73
44	Microchannel Flow with Patchwise and Periodic Surface Heterogeneity. Langmuir, 2002, 18, 8949-8959.	3.5	71
45	Microfabricated Physical Spatial Gradients for Investigating Cell Migration and Invasion Dynamics. PLoS ONE, 2011, 6, e20825.	2.5	71
46	High Resolution Reversible Color Images on Photonic Crystal Substrates. Langmuir, 2011, 27, 9676-9680.	3.5	67
47	High volumetric power density, non-enzymatic, glucose fuel cells. Scientific Reports, 2013, 3, 1226.	3.3	66
48	A multistage elastocaloric refrigerator and heat pump with 28â€‰K temperature span. Scientific Reports, 2019, 9, 18532.	3.3	66
49	Optofluidic opportunities in global health, food, water and energy. Nanoscale, 2012, 4, 4839.	5.6	65
50	Streaming Potential and Streaming Current Methods for Characterizing Heterogeneous Solid Surfaces. Journal of Colloid and Interface Science, 2001, 237, 283-289.	9.4	62
51	A serial micropipette microfluidic device with applications to cancer cell repeated deformation studies. Integrative Biology (United Kingdom), 2013, 5, 1374-1384.	1.3	62
52	Stability analysis of optofluidic transport on solid-core waveguiding structures. Nanotechnology, 2008, 19, 045704.	2.6	61
53	NutriPhone: a mobile platform for low-cost point-of-care quantification of vitamin B12 concentrations. Scientific Reports, 2016, 6, 28237.	3.3	61
54	Electrophoretic Motion of a Circular Cylindrical Particle in a Circular Cylindrical Microchannel. Langmuir, 2002, 18, 9095-9101.	3.5	58

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55	A robust, electrochemically driven microwell drug delivery system for controlled vasopressin release. Biomedical Microdevices, 2009, 11, 861-867.	2.8	58
56	Bioconjugation techniques for microfluidic biosensors. Analytical and Bioanalytical Chemistry, 2009, 394, 469-479.	3.7	55
57	A microfabricated low cost enzyme-free glucose fuel cell for powering low-power implantable devices. Journal of Power Sources, 2011, 196, 9169-9175.	7.8	55
58	Aptamer based surface enhanced Raman scattering detection of vasopressin using multilayer nanotube arrays. Biosensors and Bioelectronics, 2010, 25, 1240-1243.	10.1	54
59	ironPhone: Mobile device-coupled point-of-care diagnostics for assessment of iron status by quantification of serum ferritin. Biosensors and Bioelectronics, 2018, 99, 115-121.	10.1	54
60	A portable device for nucleic acid quantification powered by sunlight, a flame or electricity. Nature Biomedical Engineering, 2018, 2, 657-665.	22.5	54
61	Redox mediated photocatalytic water-splitting in optofluidic microreactors. Lab on A Chip, 2013, 13, 409-414.	6.0	53
62	Multiplex Single Nucleotide Polymorphism Genotyping Utilizing Ligase Detection Reaction Coupled Surface Enhanced Raman Spectroscopy. Analytical Chemistry, 2010, 82, 5810-5814.	6.5	51
63	A plate-frame flow-through microfluidic fuel cell stack. Journal of Power Sources, 2011, 196, 9481-9487.	7.8	51
64	Ultra-sensitive, label-free probing of the conformational characteristics of amyloid beta aggregates with a SERS active nanofluidic device. Microfluidics and Nanofluidics, 2012, 12, 663-669.	2.2	51
65	Optofluidic transport in liquid core waveguiding structures. Applied Physics Letters, 2007, 90, 184103.	3.3	50
66	Size-selective concentration and label-free characterization of protein aggregates using a Raman active nanofluidic device. Lab on A Chip, 2011, 11, 632-638.	6.0	49
67	Three-Dimensional Structure of Electroosmotic Flow over Heterogeneous Surfaces. Journal of Physical Chemistry B, 2003, 107, 12212-12220.	2.6	48
68	Dynamically programmable fluidic assembly. Applied Physics Letters, 2008, 93, .	3.3	48
69	Point of care technologies for sepsis diagnosis and treatment. Lab on A Chip, 2019, 19, 728-737.	6.0	47
70	A miniaturized high-voltage integrated power supply for portable microfluidic applications. Lab on A Chip, 2004, 4, 87.	6.0	45
71	Rapid diagnostic testing platform for iron and vitamin A deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13513-13518.	7.1	45
72	Detection of Kaposi's sarcoma associated herpesvirus nucleic acids using a smartphone accessory. Lab on A Chip, 2014, 14, 3809-3816.	6.0	43

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73	DNA Transport and Delivery in Thermal Gradients near Optofluidic Resonators. Physical Review Letters, 2012, 108, 048102.	7.8	42
74	Label-free electrochemical monitoring of vasopressin in aptamer-based microfluidic biosensors. Analytica Chimica Acta, 2013, 759, 74-80.	5.4	38
75	Development of a novel microfluidic immunoassay for the detection of Helicobacter pylori infection. Analyst, The, 2004, 129, 823.	3.5	37
76	Nanophotonic detection of freely interacting molecules on a single influenza virus. Scientific Reports, 2015, 5, 12087.	3.3	37
77	Current state of the art in rapid diagnostics for antimicrobial resistance. Lab on A Chip, 2020, 20, 2607-2625.	6.0	37
78	Stochastic Modular Robotic Systems: A Study of Fluidic Assembly Strategies. IEEE Transactions on Robotics, 2010, 26, 518-530.	10.3	36
79	Stacked optical waveguide photobioreactor for high density algal cultures. Bioresource Technology, 2014, 171, 495-499.	9.6	36
80	Slab waveguide photobioreactors for microalgae based biofuel production. Lab on A Chip, 2012, 12, 3740.	6.0	35
81	Hydrodynamic optical alignment for microflow cytometry. Lab on A Chip, 2011, 11, 1138.	6.0	34
82	Optothermorheological flow manipulation. Optics Letters, 2009, 34, 1976.	3.3	33
83	High-yield paper-based quantitative blood separation system. Lab on A Chip, 2018, 18, 3865-3871.	6.0	33
84	Rapid Diagnostic Platform for Colorimetric Differential Detection of Dengue and Chikungunya Viral Infections. Analytical Chemistry, 2019, 91, 5415-5423.	6.5	33
85	Nanoporous polymer ring resonators for biosensing. Optics Express, 2012, 20, 245.	3.4	30
86	Angular Orientation of Nanorods Using Nanophotonic Tweezers. Nano Letters, 2012, 12, 6400-6407.	9.1	30
87	Nanophotonic Force Microscopy: Characterizing Particleâ€“Surface Interactions Using Near-Field Photonics. Nano Letters, 2015, 15, 1414-1420.	9.1	29
88	KS-Detect â€“ Validation of Solar Thermal PCR for the Diagnosis of Kaposiâ€™s Sarcoma Using Pseudo-Biopsy Samples. PLoS ONE, 2016, 11, e0147636.	2.5	28
89	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications. Journal of Biomolecular Techniques, 2021, 32, 228-275.	1.5	28
90	Cationic polymer coatings for design of electroosmotic flow and control of DNA adsorption. Analytica Chimica Acta, 2004, 507, 55-62.	5.4	27

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91	Nutrilyzer. , 2016, , .		27
92	An energy balance approach to modeling the hydrodynamically driven spreading of a liquid drop. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 182, 109-122.	4.7	25
93	Numerical simulations of a low power microchannel thermal cycling reactor. International Journal of Heat and Mass Transfer, 2002, 45, 3759-3770.	4.8	25
94	A point-of-care assay for alpha-1-acid glycoprotein as a diagnostic tool for rapid, mobile-based determination of inflammation. Current Research in Biotechnology, 2019, 1, 41-48.	3.7	25
95	A two-colour multiplexed lateral flow immunoassay system to differentially detect human malaria species on a single test line. Malaria Journal, 2019, 18, 313.	2.3	25
96	Precision nutrition â€" review of methods for point-of-care assessment of nutritional status. Current Opinion in Biotechnology, 2017, 44, 103-108.	6.6	23
97	H.E.R.M.E.S: rapid blood-plasma separation at the point-of-need. Lab on A Chip, 2018, 18, 3285-3292.	6.0	23
98	Personalized nutrition diagnostics at the point-of-need. Lab on A Chip, 2016, 16, 2408-2417.	6.0	22
99	Evanescent photosynthesis: exciting cyanobacteria in a surface-confined light field. Physical Chemistry Chemical Physics, 2012, 14, 4817.	2.8	21
100	Electroactive nanoparticle directed assembly of functionalized graphene nanosheets into hierarchical structures with hybrid compositions for flexible supercapacitors. Nanoscale, 2013, 5, 3976.	5.6	21
101	Mechanical decision trees for investigating and modulating single-cell cancer invasion dynamics. Lab on A Chip, 2014, 14, 964.	6.0	21
102	Ionic Strength-Dependent pKShift in the Helixâ^'Coil Transition of Grafted Poly(l-glutamic acid) Layers Analyzed by Electrokinetic and Ellipsometric Measurements. Langmuir, 2004, 20, 2369-2374.	3.5	20
103	Engineering insect flight metabolics using immature stage implanted microfluidics. Lab on A Chip, 2009, 9, 669-676.	6.0	20
104	Engineered surface scatterers in edge-lit slab waveguides to improve light delivery in algae cultivation. Optics Express, 2014, 22, A1526.	3.4	20
105	Optimal Intensity and Biomass Density for Biofuel Production in a Thin-Light-Path Photobioreactor. Environmental Science & Technology, 2015, 49, 6327-6334.	10.0	20
106	Trapping and storage of particles in electroactive microwells. Applied Physics Letters, 2007, 90, 024102.	3.3	19
107	Hydrodynamically Tunable Affinities for Fluidic Assembly. Langmuir, 2009, 25, 3769-3774.	3.5	19
108	Implantable microfluidic and electronic systems for insect flight manipulation. Microfluidics and Nanofluidics, 2012, 13, 345-352.	2.2	18

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109	HI-Light: A Glass-Waveguide-Based â€œShell-and-Tubeâ€•Photothermal Reactor Platform for Converting CO2 to Fuels. IScience, 2020, 23, 101856.	4.1	18
110	Photo-injection based sample design and electroosmotic transport in microchannels. Journal of Micromechanics and Microengineering, 2002, 12, 898-904.	2.6	17
111	Optically induced microfluidic reconfiguration. Lab on A Chip, 2012, 12, 613-621.	6.0	17
112	Evaluation of Unmanned Aerial Vehicles and Neural Networks for Integrated Mosquito Management of Aedes albopictus (Diptera: Culicidae). Journal of Medical Entomology, 2020, 57, 1588-1595.	1.8	17
113	Simultaneous Characterization of Nanoparticle Size and Particle-Surface Interactions with Three-Dimensional Nanophotonic Force Microscopy. Physical Review Applied, 2016, 6, .	3.8	16
114	Personalized stress monitoring: a smartphone-enabled system for quantification of salivary cortisol. Personal and Ubiquitous Computing, 2018, 22, 867-877.	2.8	16
115	Special issue on â€œOptofluidicsâ€• Microfluidics and Nanofluidics, 2008, 4, 1-2.	2.2	15
116	Early Warning Diagnostics for Emerging Infectious Diseases in Developing into Late-Stage Pandemics. Accounts of Chemical Research, 2021, 54, 3656-3666.	15.6	15
117	Rapid Prototyping of Nanofluidic Systems Using Sizeâ€Reduced Electrospun Nanofibers for Biomolecular Analysis. Small, 2010, 6, 2420-2426.	10.0	14
118	Lightâ€Governed Capillary Flow in Microfluidic Systems. Small, 2013, 9, 107-114.	10.0	14
119	A micropillar array for sample concentration via in-plane evaporation. Biomicrofluidics, 2014, 8, 044108.	2.4	14
120	Rapid diagnostics for point-of-care quantification of soluble transferrin receptor. EBioMedicine, 2019, 42, 504-510.	6.1	14
121	Directed Self-Assembly of Microcomponents Enabled by Laser-Activated Bubble Latching. Langmuir, 2011, 27, 11259-11264.	3.5	13
122	A novel polymer microneedle fabrication process for active fluidic delivery. Microfluidics and Nanofluidics, 2011, 10, 785-791.	2.2	13
123	Lab-on-a-Bird: Biophysical Monitoring of Flying Birds. PLoS ONE, 2015, 10, e0123947.	2.5	13
124	Integrated hollow fiber membranes for gas delivery into optical waveguide based photobioreactors. Bioresource Technology, 2015, 192, 845-849.	9.6	13
125	Hydrodynamically driven docking of blocks for 3D fluidic assembly. Microfluidics and Nanofluidics, 2010, 9, 551-558.	2.2	12
126	Biopatterning for label-free detection. Colloids and Surfaces B: Biointerfaces, 2010, 76, 375-380.	5.0	12

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127	Highly portable quantitative screening test for prostate-specific antigen at point of care. Current Research in Biotechnology, 2021, 3, 288-299.	3.7	12
128	A diagnostic platform for rapid, simultaneous quantification of procalcitonin and C-reactive protein in human serum. EBioMedicine, 2022, 76, 103867.	6.1	12
129	An experimental investigation into the dimension-sensitive viscosity of polymer containing lubricant oils in microchannels. Experimental Thermal and Fluid Science, 2002, 25, 623-630.	2.7	11
130	Increased robustness for fluidic self-assembly. Physics of Fluids, 2008, 20, .	4.0	10
131	Self-assembled photonic-plasmonic nanotweezers for directed self-assembly of hybrid nanostructures. Applied Physics Letters, 2014, 104, 043112.	3.3	10
132	Near-Field Light Scattering Techniques for Measuring Nanoparticle-Surface Interaction Energies and Forces. Journal of Lightwave Technology, 2015, 33, 3494-3502.	4.6	10
133	cAST: Capillary-Based Platform for Real-Time Phenotypic Antimicrobial Susceptibility Testing. Analytical Chemistry, 2020, 92, 2731-2738.	6.5	10
134	In situ hollow fiber membrane facilitated CO2 delivery to a cyanobacterium for enhanced productivity. RSC Advances, 2013, 3, 13203.	3.6	9
135	Orthogonal Nanoparticle Size, Polydispersity, and Stability Characterization with Near-Field Optical Trapping and Light Scattering. ACS Photonics, 2017, 4, 106-113.	6.6	9
136	Two-Color Duplex Platform for Point-of-Care Differential Detection of Malaria and Typhoid Fever. Analytical Chemistry, 2021, 93, 12175-12180.	6.5	9
137	Analysis of liquid-to-solid coupling and other performance parameters for microfluidically reconfigurable photonic systems. Optics Express, 2010, 18, 10973.	3.4	8
138	Hollow fibre membrane arrays for CO₂delivery in microalgae photobioreactors. RSC Advances, 2014, 4, 1460-1468.	3.6	8
139	Solar-thermal complex sample processing for nucleic acid based diagnostics in limited resource settings. Biomedical Optics Express, 2016, 7, 1974.	2.9	8
140	Nanoscale optofluidic sensor arrays for Dengue virus detection. Proceedings of SPIE, 2007, , .	0.8	7
141	Enhancing the Usability of an Optical Reader System to Support Point-of-Care Rapid Diagnostic Testing: An Iterative Design Approach. JMIR Human Factors, 2017, 4, e29.	2.0	7
142	Continuous operation of a hybrid solid-liquid state reconfigurable photonic system without resupply of liquids. Lab on A Chip, 2012, 12, 2575.	6.0	6
143	Paper-Based Semi-quantitative Antimicrobial Susceptibility Testing. ACS Omega, 2021, 6, 1410-1414.	3.5	6
144	A Rapid, Isothermal, and Point-of-Care System for COVID-19 Diagnostics. Journal of Biomolecular Techniques, 2021, 32, 221-227.	1.5	6

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145	Optofluidics. , 2005, 5908, 231.		5
146	Vitamin A status, inflammation adjustment, and immunologic response in the context of acute febrile illness: A pilot cohort study among pediatric patients. Clinical Nutrition, 2021, 40, 2837-2844.	5.0	5
147	Electroactive micro and nanowells for optofluidic storage. Optics Express, 2009, 17, 21134.	3.4	4
148	Fluorescence lateral flow competitive protein binding assay for the assessment of serum folate concentrations. PLoS ONE, 2019, 14, e0217403.	2.5	4
149	Optically Resonant Nanophotonic Devices for Label-Free Biomolecular Detection. Integrated Analytical Systems, 2009, , 445-470.	0.4	3
150	In Situ UV Disinfection of a Waveguide-Based Photobioreactor. Environmental Science & Technology, 2014, 48, 11521-11526.	10.0	3
151	Stacked waveguide reactors with gradient embedded scatterers for high-capacity water cleaning. Optics Express, 2015, 23, A1664.	3.4	3
152	Holographic diagnosis of lymphoma. Nature Biomedical Engineering, 2018, 2, 631-632.	22.5	3
153	Visible colorimetric growth indicators of Neisseria gonorrhoeae for low-cost diagnostic applications. PLoS ONE, 2021, 16, e0252961.	2.5	3
154	An isothermal amplification-based point-of-care diagnostic platform for the detection of Mycobacterium tuberculosis: A proof-of-concept study. Current Research in Biotechnology, 2021, 3, 154-159.	3.7	3
155	Engineering waveguide surface by gradient etching for uniform light scattering in photocatalytic applications. Chemical Engineering Journal Advances, 2021, 8, 100192.	5.2	3
156	Simplified detection of Epstein-Barr virus for diagnosis of endemic Burkitt lymphoma. Blood Advances, 2022, 6, 3650-3654.	5.2	3
157	Dynamics of an optically confined nanoparticle diffusing normal to a surface. Physical Review E, 2016, 93, 062139.	2.1	2
158	Gold Nanoshells-Based Lateral Flow Assay for the Detection of Chagas Disease at the Point-of-Care. American Journal of Tropical Medicine and Hygiene, 2022, 107, 323-327.	1.4	2
159	Optofluidic Transport: Optical Waveguides as Microfluidic â€œTrain Tracksâ€• , 2007, , 815.		1
160	Nanofluidic tuning of photonic crystal circuits. , 2007, , .		1
161	Creating optically reconfigurable channel based microfluidic systems. , 2011, , .		1
162	Microfluidic Photocatalytic Water-Splitting Reactors. , 2012, , .		1

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163	Agarose gel optical waveguides with encapsulation of live cells and integrated microfluidics. , 2012, , .		1
164	The molecular nanotweezer: nanomanipulation taken to new lows. , 2013, , .		1
165	Optomechanical manipulation of chemical reactions on the nanoscale with optofluidic nanotweezers. Proceedings of SPIE, 2014, , .	0.8	1
166	Localized Opto-Mechanical Control of Protein Adsorption onto Carbon Nanotubes. Scientific Reports, 2015, 4, 6707.	3.3	1
167	TIDBIT: portable diagnostics of multiplexed nutrition deficiencies: iron, vitamin A and inflammation status (Conference Presentation). , 2017, , .		1
168	Rainer Gross Award Lecture 2016. Food and Nutrition Bulletin, 2017, 38, 140-145.	1.4	1
169	Point-of-Care Quantification of Serum Alpha-Fetoprotein for Screening Birth Defects in Resource-Limited Settings: Proof-of-Concept Study. JMIR Biomedical Engineering, 2021, 6, e23527.	1.2	1
170	Optofluidics. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 529-551.	0.5	1
171	Nanomanipulation Using Near Field Photonics. , 2011, , .		1
172	Multiplexed paper-based assay for personalized antimicrobial susceptibility profiling of Carbapenem-resistant Enterobacterales performed in a rechargeable coffee mug. Scientific Reports, 2022, 12, .	3.3	1
173	A DNA Hybridization Chip With Electrokinetically-Based Single Nucleotide Polymorphism (SNP) Discrimination. , 2004, , 271.		0
174	Micro and Nanofluidic Transport Using Advanced Photonic Devices. , 2006, , 117.		0
175	Optofluidically driven micro- and nano-fluidic devices. , 2006, 6329, 80.		0
176	Electro-active nanowell structures for sensing and optofluidic applications. , 2006, , .		0
177	Nano-aperture array based optical imaging system on a microfluidic chip. , 2006, , .		0
178	Optofluidic Transport in Liquid Core Photonic Crystal Fibers. , 2007, , .		0
179	Surface Plasmon Resonance Sensors. , 2008, , 1939-1945.		0
180	Nanoscale Optofluidic Sensor Arrays for Dengue virus detection. , 2008, , .		0

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181	Spectrographic fluidic memory using electroactive nanowell arrays. , 2008, , .		0
182	Optofluidic Trapping and Transport Using Optically Resonant and Non Resonant Structures. , 2008, , .		0
183	Optofluidics: Fluidics Enabling Optics and Optics Enabling Fluidics. , 2008, , .		0
184	Direct Manipulation of Nanoparticles and DNA in Sub-Wavelength Optical Nanochannels. , 2009, , .		0
185	Waveguide Enabled Photo-Bio-Energy Production. , 2011, , .		0
186	Optofluidically reconfigurable channel based microfluidics. , 2011, , .		0
187	Nanomanipulation using silicon nitride photonic crystal resonators. , 2011, , .		0
188	A Microfabricated Enzyme-Free Glucose Fuel Cell for Implantable Devices. , 2011, , .		0
189	Flexible Photonics Based Optofluidic Photobioreactors. , 2012, , .		0
190	Overcoming the Temperature Increase Hurdle in Photonic Crystal Molecular Tweezers. , 2012, , .		0
191	Novel Approach in Algae Biofuel Production using Advanced Photonics. , 2012, , .		0
192	Near-Field Angular Orientation of Biological Materials. Biophysical Journal, 2013, 104, 676a.	0.5	0
193	Near-Field Optical Immobilization of Antibodies for Novel Fluorescent Bioassays. Biophysical Journal, 2013, 104, 501a.	0.5	0
194	Hollow Fiber Membrane (HFM) Facilitated CO2 Delivery to a Cyanobacteria Layer for Biofuel Production. , 2013, , .		0
195	Autonomous Device for Application in Late-Phase Hemorrhagic Shock Prevention. PLoS ONE, 2014, 9, e89903.	2.5	0
196	Uniform algal growth in photobioreactors using surface scatterers. , 2014, , .		0
197	Optofluidics for Mobile Health, Bioenergy, and Nanoparticle Analysis. , 2014, , .		0
198	Optofluidic nanotweezer methods for characterizing nanoparticles and viruses (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Tc		0

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199	NutriPhone: vitamin B12 testing on your smartphone (Conference Presentation). , 2016, , .		0
200	StressPhone: smartphone based platform for measurement of cortisol for stress detection (Conference Presentation). , 2016, , .		0
201	An energy-flexible mechanism for qPCR thermal cycling using shape memory alloys. Smart Materials and Structures, 2020, 29, 045038.	3.5	0
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