

David Carl Erickson

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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	A diagnostic platform for rapid, simultaneous quantification of procalcitonin and C-reactive protein in human serum.. <i>EBioMedicine</i> , 2022 , 76, 103867	8.8	0
170	Highly portable quantitative screening test for prostate-specific antigen at point of care.. <i>Current Research in Biotechnology</i> , 2021 , 3, 288-299	4.8	1
169	Engineering waveguide surface by gradient etching for uniform light scattering in photocatalytic applications. <i>Chemical Engineering Journal Advances</i> , 2021 , 8, 100192	3.6	1
168	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> , 2021 , 40, 2837-2844	5.9	2
167	Visible colorimetric growth indicators of <i>Neisseria gonorrhoeae</i> for low-cost diagnostic applications. <i>PLoS ONE</i> , 2021 , 16, e0252961	3.7	0
166	Paper-Based Semi-quantitative Antimicrobial Susceptibility Testing. <i>ACS Omega</i> , 2021 , 6, 1410-1414	3.9	2
165	Early Warning Diagnostics for Emerging Infectious Diseases in Developing into Late-Stage Pandemics. <i>Accounts of Chemical Research</i> , 2021 , 54, 3656-3666	24.3	2
164	Two-Color Duplex Platform for Point-of-Care Differential Detection of Malaria and Typhoid Fever. <i>Analytical Chemistry</i> , 2021 , 93, 12175-12180	7.8	1
163	An isothermal amplification-based point-of-care diagnostic platform for the detection of : A proof-of-concept study. <i>Current Research in Biotechnology</i> , 2021 , 3, 154-159	4.8	1
162	A Rapid, Isothermal, and Point-of-Care System for COVID-19 Diagnostics.. <i>Journal of Biomolecular Techniques</i> , 2021 , 32, 221-227	1.1	0
161	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications.. <i>Journal of Biomolecular Techniques</i> , 2021 , 32, 228-275	1.1	2
160	HI-Light: A Glass-Waveguide-Based "Shell-and-Tube" Photothermal Reactor Platform for Converting CO to Fuels. <i>IScience</i> , 2020 , 23, 101856	6.1	8
159	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> , 2020 , 57, 1588-1595 ²	3.2	6
158	Current state of the art in rapid diagnostics for antimicrobial resistance. <i>Lab on A Chip</i> , 2020 , 20, 2607-2625	6.25	10
157	An energy-flexible mechanism for qPCR thermal cycling using shape memory alloys. <i>Smart Materials and Structures</i> , 2020 , 29, 045038	3.4	
156	CAST: Capillary-Based Platform for Real-Time Phenotypic Antimicrobial Susceptibility Testing. <i>Analytical Chemistry</i> , 2020 , 92, 2731-2738	7.8	7
155	Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. <i>Nature Communications</i> , 2019 , 10, 4185	17.4	48

154	A two-colour multiplexed lateral flow immunoassay system to differentially detect human malaria species on a single test line. <i>Malaria Journal</i> , 2019 , 18, 313	3.6	16
153	Fluorescence lateral flow competitive protein binding assay for the assessment of serum folate concentrations. <i>PLoS ONE</i> , 2019 , 14, e0217403	3.7	2
152	Rapid Diagnostic Platform for Colorimetric Differential Detection of Dengue and Chikungunya Viral Infections. <i>Analytical Chemistry</i> , 2019 , 91, 5415-5423	7.8	19
151	Rapid diagnostics for point-of-care quantification of soluble transferrin receptor. <i>EBioMedicine</i> , 2019 , 42, 504-510	8.8	8
150	Point of care technologies for sepsis diagnosis and treatment. <i>Lab on A Chip</i> , 2019 , 19, 728-737	7.2	27
149	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> , 2019 , 1, 41-48	4.8	11
148	A multistage elastocaloric refrigerator and heat pump with 28 K temperature span. <i>Scientific Reports</i> , 2019 , 9, 18532	4.9	22
147	ironPhone: Mobile device-coupled point-of-care diagnostics for assessment of iron status by quantification of serum ferritin. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 115-121	11.8	40
146	Personalized stress monitoring: a smartphone-enabled system for quantification of salivary cortisol. <i>Personal and Ubiquitous Computing</i> , 2018 , 22, 867-877	2.1	9
145	High-yield paper-based quantitative blood separation system. <i>Lab on A Chip</i> , 2018 , 18, 3865-3871	7.2	23
144	H.E.R.M.E.S: rapid blood-plasma separation at the point-of-need. <i>Lab on A Chip</i> , 2018 , 18, 3285-3292	7.2	11
143	A portable device for nucleic acid quantification powered by sunlight, a flame or electricity. <i>Nature Biomedical Engineering</i> , 2018 , 2, 657-665	19	37
142	Holographic diagnosis of lymphoma. <i>Nature Biomedical Engineering</i> , 2018 , 2, 631-632	19	2
141	Rainer Gross Award Lecture 2016: A Laboratory in Your Pocket: Enabling Precision Nutrition. <i>Food and Nutrition Bulletin</i> , 2017 , 38, 140-145	1.8	1
140	Mitigating the Hook Effect in Lateral Flow Sandwich Immunoassays Using Real-Time Reaction Kinetics. <i>Analytical Chemistry</i> , 2017 , 89, 5095-5100	7.8	53
139	Precision nutrition - review of methods for point-of-care assessment of nutritional status. <i>Current Opinion in Biotechnology</i> , 2017 , 44, 103-108	11.4	14
138	Orthogonal Nanoparticle Size, Polydispersity, and Stability Characterization with Near-Field Optical Trapping and Light Scattering. <i>ACS Photonics</i> , 2017 , 4, 106-113	6.3	7
137	Roadmap for optofluidics. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 093003	1.7	55

136	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> , 2017 , 114, 13513-13518	11.5	31
135	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> , 2017 , 4, e29	2.5	5
134	Dynamics of an optically confined nanoparticle diffusing normal to a surface. <i>Physical Review E</i> , 2016 , 93, 062139	2.4	2
133	Simultaneous Characterization of Nanoparticle Size and Particle-Surface Interactions with Three-Dimensional Nanophotonic Force Microscopy. <i>Physical Review Applied</i> , 2016 , 6,	4.3	12
132	NutriPhone: a mobile platform for low-cost point-of-care quantification of vitamin B12 concentrations. <i>Scientific Reports</i> , 2016 , 6, 28237	4.9	49
131	Personalized nutrition diagnostics at the point-of-need. <i>Lab on A Chip</i> , 2016 , 16, 2408-17	7.2	17
130	Nutrilyzer 2016 ,		19
129	KS-Detect - Validation of Solar Thermal PCR for the Diagnosis of Kaposi's Sarcoma Using Pseudo-Biopsy Samples. <i>PLoS ONE</i> , 2016 , 11, e0147636	3.7	23
128	Solar-thermal complex sample processing for nucleic acid based diagnostics in limited resource settings. <i>Biomedical Optics Express</i> , 2016 , 7, 1974-84	3.5	7
127	Two-Color Lateral Flow Assay for Multiplex Detection of Causative Agents Behind Acute Febrile Illnesses. <i>Analytical Chemistry</i> , 2016 , 88, 8359-63	7.8	63
126	Integrated hollow fiber membranes for gas delivery into optical waveguide based photobioreactors. <i>Bioresource Technology</i> , 2015 , 192, 845-9	11	12
125	Optimal intensity and biomass density for biofuel production in a thin-light-path photobioreactor. <i>Environmental Science & Technology</i> , 2015 , 49, 6327-34	10.3	19
124	Nanophotonic detection of freely interacting molecules on a single influenza virus. <i>Scientific Reports</i> , 2015 , 5, 12087	4.9	32
123	Lab-on-a-bird: biophysical monitoring of flying birds. <i>PLoS ONE</i> , 2015 , 10, e0123947	3.7	10
122	Stacked waveguide reactors with gradient embedded scatterers for high-capacity water cleaning. <i>Optics Express</i> , 2015 , 23, A1664-71	3.3	3
121	Near-field Light Scattering Techniques for Measuring Nanoparticle-Surface Interaction Energies and Forces. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3494-3502	4	9
120	Nanophotonic force microscopy: characterizing particle-surface interactions using near-field photonics. <i>Nano Letters</i> , 2015 , 15, 1414-20	11.5	25
119	Solar thermal polymerase chain reaction for smartphone-assisted molecular diagnostics. <i>Scientific Reports</i> , 2014 , 4, 4137	4.9	79

118	A smartphone platform for the quantification of vitamin D levels. <i>Lab on A Chip</i> , 2014 , 14, 1437-42	7.2	144
117	Mechanical decision trees for investigating and modulating single-cell cancer invasion dynamics. <i>Lab on A Chip</i> , 2014 , 14, 964-71	7.2	19
116	Cholesterol testing on a smartphone. <i>Lab on A Chip</i> , 2014 , 14, 759-63	7.2	183
115	Stacked optical waveguide photobioreactor for high density algal cultures. <i>Bioresource Technology</i> , 2014 , 171, 495-9	11	32
114	In situ UV disinfection of a waveguide-based photobioreactor. <i>Environmental Science & Technology</i> , 2014 , 48, 11521-6	10.3	2
113	Detection of Kaposi's sarcoma associated herpesvirus nucleic acids using a smartphone accessory. <i>Lab on A Chip</i> , 2014 , 14, 3809-16	7.2	38
112	Hollow fibre membrane arrays for CO2 delivery in microalgae photobioreactors. <i>RSC Advances</i> , 2014 , 4, 1460-1468	3.7	8
111	Smartphone technology can be transformative to the deployment of lab-on-chip diagnostics. <i>Lab on A Chip</i> , 2014 , 14, 3159-64	7.2	135
110	Localized opto-mechanical control of protein adsorption onto carbon nanotubes. <i>Scientific Reports</i> , 2014 , 4, 6707	4.9	1
109	Autonomous device for application in late-phase hemorrhagic shock prevention. <i>PLoS ONE</i> , 2014 , 9, e89903	3.0	3
108	Optomechanical manipulation of chemical reactions on the nanoscale with optofluidic nanotweezers 2014 ,		1
107	Engineered surface scatterers in edge-lit slab waveguides to improve light delivery in algae cultivation. <i>Optics Express</i> , 2014 , 22 Suppl 6, A1526-37	3.3	18
106	Self-assembled photonic-plasmonic nanotweezers for directed self-assembly of hybrid nanostructures. <i>Applied Physics Letters</i> , 2014 , 104, 043112	3.4	10
105	A micropillar array for sample concentration via in-plane evaporation. <i>Biomicrofluidics</i> , 2014 , 8, 044108	3.2	10
104	Electroosmotic Flow over Heterogeneous Surfaces 2014 , 1-11		
103	Multiplexed colorimetric detection of Kaposi's sarcoma associated herpesvirus and Bartonella DNA using gold and silver nanoparticles. <i>Nanoscale</i> , 2013 , 5, 1678-86	7.7	71
102	A serial micropipette microfluidic device with applications to cancer cell repeated deformation studies. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1374-84	3.7	52
101	In situ hollow fiber membrane facilitated CO2 delivery to a cyanobacterium for enhanced productivity. <i>RSC Advances</i> , 2013 , 3, 13203	3.7	8

100	Electroactive nanoparticle directed assembly of functionalized graphene nanosheets into hierarchical structures with hybrid compositions for flexible supercapacitors. <i>Nanoscale</i> , 2013 , 5, 3976-81	7.7	21
99	Label-free electrochemical monitoring of vasopressin in aptamer-based microfluidic biosensors. <i>Analytica Chimica Acta</i> , 2013 , 759, 74-80	6.6	29
98	Smartphone based health accessory for colorimetric detection of biomarkers in sweat and saliva. <i>Lab on A Chip</i> , 2013 , 13, 3232-8	7.2	28
97	Redox mediated photocatalytic water-splitting in optofluidic microreactors. <i>Lab on A Chip</i> , 2013 , 13, 409-14	7.2	45
96	Elucidating mechanical transition effects of invading cancer cells with a subnucleus-scaled microfluidic serial dimensional modulation device. <i>Lab on A Chip</i> , 2013 , 13, 340-8	7.2	77
95	Light-governed capillary flow in microfluidic systems. <i>Small</i> , 2013 , 9, 107-14	11	14
94	High volumetric power density, non-enzymatic, glucose fuel cells. <i>Scientific Reports</i> , 2013 , 3, 1226	4.9	58
93	Ultra-sensitive, label-free probing of the conformational characteristics of amyloid beta aggregates with a SERS active nanofluidic device. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 663-669	2.8	41
92	Angular orientation of nanorods using nanophotonic tweezers. <i>Nano Letters</i> , 2012 , 12, 6400-7	11.5	25
91	Optofluidic opportunities in global health, food, water and energy. <i>Nanoscale</i> , 2012 , 4, 4839-57	7.7	54
90	Implantable microfluidic and electronic systems for insect flight manipulation. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 345-352	2.8	13
89	Continuous operation of a hybrid solid-liquid state reconfigurable photonic system without resupply of liquids. <i>Lab on A Chip</i> , 2012 , 12, 2575-9	7.2	6
88	Evanescent photosynthesis: exciting cyanobacteria in a surface-confined light field. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4817-23	3.6	18
87	Slab waveguide photobioreactors for microalgae based biofuel production. <i>Lab on A Chip</i> , 2012 , 12, 3740-5	7.5	31
86	Optically induced microfluidic reconfiguration. <i>Lab on A Chip</i> , 2012 , 12, 613-21	7.2	13
85	Controlled photonic manipulation of proteins and other nanomaterials. <i>Nano Letters</i> , 2012 , 12, 1633-7	11.5	14
84	Gel-based optical waveguides with live cell encapsulation and integrated microfluidics. <i>Optics Letters</i> , 2012 , 37, 1472-4	3	58
83	DNA transport and delivery in thermal gradients near optofluidic resonators. <i>Physical Review Letters</i> , 2012 , 108, 048102	7.4	38

82	Nanoporous polymer ring resonators for biosensing. <i>Optics Express</i> , 2012 , 20, 245-55	3.3	26
81	Agarose gel optical waveguides with encapsulation of live cells and integrated microfluidics 2012 ,		1
80	Nanomanipulation using near field photonics. <i>Lab on A Chip</i> , 2011 , 11, 995-1009	7.2	187
79	Optofluidic waveguides for reconfigurable photonic systems. <i>Optics Express</i> , 2011 , 19, 8602-9	3.3	118
78	Optofluidics for energy applications. <i>Nature Photonics</i> , 2011 , 5, 583-590	33.9	223
77	Microfabricated physical spatial gradients for investigating cell migration and invasion dynamics. <i>PLoS ONE</i> , 2011 , 6, e20825	3.7	62
76	A microfabricated low cost enzyme-free glucose fuel cell for powering low-power implantable devices. <i>Journal of Power Sources</i> , 2011 , 196, 9169-9175	8.9	49
75	A plate-frame flow-through microfluidic fuel cell stack. <i>Journal of Power Sources</i> , 2011 , 196, 9481-9487	8.9	45
74	A novel polymer microneedle fabrication process for active fluidic delivery. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 785-791	2.8	11
73	Size-selective concentration and label-free characterization of protein aggregates using a Raman active nanofluidic device. <i>Lab on A Chip</i> , 2011 , 11, 632-8	7.2	44
72	Hydrodynamic optical alignment for microflow cytometry. <i>Lab on A Chip</i> , 2011 , 11, 1138-43	7.2	34
71	Large area flexible SERS active substrates using engineered nanostructures. <i>Nanoscale</i> , 2011 , 3, 2903-8	7.7	85
70	Directed self-assembly of microcomponents enabled by laser-activated bubble latching. <i>Langmuir</i> , 2011 , 27, 11259-64	4	10
69	High resolution reversible color images on photonic crystal substrates. <i>Langmuir</i> , 2011 , 27, 9676-80	4	63
68	Creating optically reconfigurable channel based microfluidic systems 2011 ,		1
67	Optofluidic ring resonator switch for optical particle transport. <i>Lab on A Chip</i> , 2010 , 10, 769-74	7.2	164
66	Analysis of liquid-to-solid coupling and other performance parameters for microfluidically reconfigurable photonic systems. <i>Optics Express</i> , 2010 , 18, 10973-84	3.3	5
65	Stochastic Modular Robotic Systems: A Study of Fluidic Assembly Strategies. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 518-530	6.5	30

64	Multiplex single nucleotide polymorphism genotyping utilizing ligase detection reaction coupled surface enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2010 , 82, 5810-4	7.8	49
63	Nanomanipulation using silicon photonic crystal resonators. <i>Nano Letters</i> , 2010 , 10, 99-104	11.5	198
62	Hydrodynamically driven docking of blocks for 3D fluidic assembly. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 551-558	2.8	10
61	Biopatterning for label-free detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 375-80	6	9
60	Aptamer based surface enhanced Raman scattering detection of vasopressin using multilayer nanotube arrays. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1240-3	11.8	49
59	Rapid prototyping of nanofluidic systems using size-reduced electrospun nanofibers for biomolecular analysis. <i>Small</i> , 2010 , 6, 2420-6	11	14
58	Optofluidics. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 529-551	0.1	1
57	Vivo-Fluidics and Programmable Matter. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 553-576	0.1	
56	Introduction to Microfluidic and Optofluidic Transport 2010 , 1-1-1-22		
55	A method for nanofluidic device prototyping using elastomeric collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15549-54	11.5	126
54	Surface enhanced Raman spectroscopy and its application to molecular and cellular analysis. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 285-297	2.8	159
53	A robust, electrochemically driven microwell drug delivery system for controlled vasopressin release. <i>Biomedical Microdevices</i> , 2009 , 11, 861-7	3.7	48
52	Bioconjugation techniques for microfluidic biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 469-79	4.4	46
51	Optical manipulation of nanoparticles and biomolecules in sub-wavelength slot waveguides. <i>Nature</i> , 2009 , 457, 71-5	50.4	564
50	Forces and transport velocities for a particle in a slot waveguide. <i>Nano Letters</i> , 2009 , 9, 1182-8	11.5	84
49	Enhanced on-chip SERS based biomolecular detection using electrokinetically active microwells. <i>Lab on A Chip</i> , 2009 , 9, 433-9	7.2	91
48	Optothermoeological flow manipulation. <i>Optics Letters</i> , 2009 , 34, 1976-8	3	27
47	Electroactive micro and nanowells for optofluidic storage. <i>Optics Express</i> , 2009 , 17, 21134-48	3.3	4

46	A multiplexed optofluidic biomolecular sensor for low mass detection. <i>Lab on A Chip</i> , 2009 , 9, 2924-32	7.2	119
45	Surface-enhanced Raman scattering based ligase detection reaction. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2208-13	16.4	77
44	Optically Resonant Nanophotonic Devices for Label-Free Biomolecular Detection. <i>Integrated Analytical Systems</i> , 2009 , 445-470	0.4	2
43	Engineering insect flight metabolics using immature stage implanted microfluidics. <i>Lab on A Chip</i> , 2009 , 9, 669-76	7.2	19
42	Hydrodynamically tunable affinities for fluidic assembly. <i>Langmuir</i> , 2009 , 25, 3769-74	4	18
41	Nanoscale optofluidic sensor arrays. <i>Optics Express</i> , 2008 , 16, 1623-31	3.3	206
40	Electrokinetic microfluidic devices for rapid, low power drug delivery in autonomous microsystems. <i>Lab on A Chip</i> , 2008 , 8, 330-8	7.2	73
39	Stability analysis of optofluidic transport on solid-core waveguiding structures. <i>Nanotechnology</i> , 2008 , 19, 045704	3.4	49
38	Increased robustness for fluidic self-assembly. <i>Physics of Fluids</i> , 2008 , 20, 073304	4.4	6
37	Dynamically programmable fluidic assembly. <i>Applied Physics Letters</i> , 2008 , 93, 254105	3.4	40
36	Nanobiosensors: optofluidic, electrical and mechanical approaches to biomolecular detection at the nanoscale. <i>Microfluidics and Nanofluidics</i> , 2008 , 4, 33-52	2.8	174
35	Special issue on Optofluidics <i>Microfluidics and Nanofluidics</i> , 2008 , 4, 1-2	2.8	11
34	Optofluidic Transport: Optical Waveguides as Microfluidic Train Tracks 2007 , 815		
33	Trapping and storage of particles in electroactive microwells. <i>Applied Physics Letters</i> , 2007 , 90, 024102	3.4	18
32	Optofluidic transport in liquid core waveguiding structures. <i>Applied Physics Letters</i> , 2007 , 90, 184103	3.4	40
31	Nanoscale optofluidic sensor arrays for Dengue virus detection 2007 ,		3
30	Optofluidic trapping and transport on solid core waveguides within a microfluidic device. <i>Optics Express</i> , 2007 , 15, 14322-34	3.3	173
29	Optofluidically driven micro- and nano-fluidic devices 2006 , 6329, 80		

28	Optofluidic microscopy--a method for implementing a high resolution optical microscope on a chip. <i>Lab on A Chip</i> , 2006 , 6, 1274-6	7.2	190
27	Nanofluidic tuning of photonic crystal circuits. <i>Optics Letters</i> , 2006 , 31, 59-61	3	177
26	Micro and Nanofluidic Transport Using Advanced Photonic Devices 2006 , 117		
25	Electrokinetically based approach for single-nucleotide polymorphism discrimination using a microfluidic device. <i>Analytical Chemistry</i> , 2005 , 77, 4000-7	7.8	64
24	Towards numerical prototyping of labs-on-chip: modeling for integrated microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2005 , 1, 301-318	2.8	129
23	Optofluidics 2005 , 5908, 231		3
22	A DNA Hybridization Chip With Electrokinetically-Based Single Nucleotide Polymorphism (SNP) Discrimination 2004 , 271		
21	Integrated microfluidic devices. <i>Analytica Chimica Acta</i> , 2004 , 507, 11-26	6.6	530
20	Cationic polymer coatings for design of electroosmotic flow and control of DNA adsorption. <i>Analytica Chimica Acta</i> , 2004 , 507, 55-62	6.6	26
19	Development of a novel microfluidic immunoassay for the detection of Helicobacter pylori infection. <i>Analyst, The</i> , 2004 , 129, 823-8	5	33
18	Electrokinetically controlled DNA hybridization microfluidic chip enabling rapid target analysis. <i>Analytical Chemistry</i> , 2004 , 76, 7269-77	7.8	93
17	A miniaturized high-voltage integrated power supply for portable microfluidic applications. <i>Lab on A Chip</i> , 2004 , 4, 87-90	7.2	42
16	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> , 2004 , 20, 2369-74	4	20
15	Heterogeneous surface charge enhanced micromixing for electrokinetic flows. <i>Analytical Chemistry</i> , 2004 , 76, 3208-13	7.8	196
14	Modeling of DNA hybridization kinetics for spatially resolved biochips. <i>Analytical Biochemistry</i> , 2003 , 317, 186-200	3.1	135
13	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> , 2003 , 261, 402-10	9.3	512
12	Three-Dimensional Structure of Electroosmotic Flow over Heterogeneous Surfaces. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12212-12220	3.4	46
11	Analysis of Alternating Current Electroosmotic Flows in a Rectangular Microchannel. <i>Langmuir</i> , 2003 , 19, 5421-5430	4	85

10	Joule heating and heat transfer in poly(dimethylsiloxane) microfluidic systems. <i>Lab on A Chip</i> , 2003 , 3, 141-9	7.2	221
9	An experimental investigation into the dimension-sensitive viscosity of polymer containing lubricant oils in microchannels. <i>Experimental Thermal and Fluid Science</i> , 2002 , 25, 623-630	3	9
8	Numerical simulations of a low power microchannel thermal cycling reactor. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 3759-3770	4.9	20
7	Photo-injection based sample design and electroosmotic transport in microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2002 , 12, 898-904	2	15
6	Microchannel Flow with Patchwise and Periodic Surface Heterogeneity. <i>Langmuir</i> , 2002 , 18, 8949-8959	4	65
5	Electrophoretic Motion of a Circular Cylindrical Particle in a Circular Cylindrical Microchannel. <i>Langmuir</i> , 2002 , 18, 9095-9101	4	51
4	Influence of Surface Heterogeneity on Electrokinetically Driven Microfluidic Mixing. <i>Langmuir</i> , 2002 , 18, 1883-1892	4	231
3	An energy balance approach to modeling the hydrodynamically driven spreading of a liquid drop. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 182, 109-122	5.1	17
2	Streaming Potential and Streaming Current Methods for Characterizing Heterogeneous Solid Surfaces. <i>Journal of Colloid and Interface Science</i> , 2001 , 237, 283-289	9.3	54
1	An Improved Method of Determining the zeta-Potential and Surface Conductance. <i>Journal of Colloid and Interface Science</i> , 2000 , 232, 186-197	9.3	76