Brian T Cunningham

List of Publications by Year in Descending Order

162 papers	6,676 citations	46 h-index	75 g-index
179 ext. papers	7,744 ext. citations	6.7 avg, IF	6.04 L-index

#	Paper	IF	Citations
162	Microscopies Enabled by Photonic Metamaterials.. *Sensors*, **2022**, 22,	3.8	4
161	Digital-resolution and highly sensitive detection of multiple exosomal small RNAs by DNA toehold probe-based photonic resonator absorption microscopy.. *Talanta*, **2022**, 241, 123256	6.2	1
160	Overcoming the limitations of COVID-19 diagnostics with nanostructures, nucleic acid engineering, and additive manufacturing. *Current Opinion in Solid State and Materials Science*, **2022**, 26, 100966	12	2
159	Label-Free Digital Detection of Intact Virions by Enhanced Scattering Microscopy.. *Journal of the American Chemical Society*, **2021**,	16.4	3
158	Photonic resonator interferometric scattering microscopy. *Nature Communications*, **2021**, 12, 1744	17.4	11
157	A compact photonic resonator absorption microscope for point of care digital resolution nucleic acid molecular diagnostics. *Biomedical Optics Express*, **2021**, 12, 4637-4650	3.5	5
156	Single-step, wash-free digital immunoassay for rapid quantitative analysis of serological antibody against SARS-CoV-2 by photonic resonator absorption microscopy. *Talanta*, **2021**, 225, 122004	6.2	18
155	Development of a Linker-Mediated Immunoassay Using Chemically Transitioned Nanosensors. *Analytical Chemistry*, **2020**, 92, 3627-3635	7.8	2
154	High-Fidelity Single Molecule Quantification in a Flow Cytometer Using Multiparametric Optical Analysis. *ACS Nano*, **2020**, 14, 2324-2335	16.7	8
153	Critical Review: digital resolution biomolecular sensing for diagnostics and life science research. *Lab on A Chip*, **2020**, 20, 2816-2840	7.2	13
152	Enhanced Plasmonic Photocatalysis through Synergistic Plasmonic–Photonic Hybridization. *ACS Photonics*, **2020**, 7, 1994-2001	6.3	12
151	Rapid isothermal amplification and portable detection system for SARS-CoV-2. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22727-22735	11.5	164
150	Smartphone-based multiplex 30-minute nucleic acid test of live virus from nasal swab extract. *Lab on A Chip*, **2020**, 20, 1621-1627	7.2	68
149	Digital-resolution detection of microRNA with single-base selectivity by photonic resonator absorption microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19362-19367	11.5	23
148	Design of anapole mode electromagnetic field enhancement structures for biosensing applications. *Optics Express*, **2019**, 27, 7196-7212	3.3	22
147	Spectrometric Smartphone-Based System for Ibuprofen Quantification in Commercial Dosage Tablets. *Journal of Pharmaceutical Sciences*, **2019**, 108, 2593-2598	3.9	3
146	Point-of-use detection of ascorbic acid using a spectrometric smartphone-based system. *Food Chemistry*, **2019**, 272, 141-147	8.5	25

145	Microcavity-Mediated Spectrally Tunable Amplification of Absorption in Plasmonic Nanoantennas. *Nano Letters*, **2019**, 19, 5297-5303	11.5	13
144	Activate capture and digital counting (AC + DC) assay for protein biomarker detection integrated with a self-powered microfluidic cartridge. *Lab on A Chip*, **2019**, 19, 3943-3953	7.2	14
143	Analysis of Paper-Based Colorimetric Assays With a Smartphone Spectrometer. *IEEE Sensors Journal* , **2019**, 19, 508-514	4	15
142	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. *Chemistry of Materials*, **2018**, 30, 1998-2005	9.6	43
141	An Automated Microfluidic Assay for Photonic Crystal Enhanced Detection and Analysis of an Antiviral Antibody Cancer Biomarker in Serum. *IEEE Sensors Journal*, **2018**, 18, 1464-1473	4	4
140	Integrated spectroscopic analysis system with low vertical height for measuring liquid or solid assays. *Sensors and Actuators B: Chemical*, **2018**, 255, 935-943	8.5	4
139	Detection and Digital Resolution Counting of Nanoparticles with Optical Resonators and Applications in Biosensing. *Chemosensors*, **2018**, 6, 13	4	0
138	Quantitative analysis of focal adhesion dynamics using photonic resonator outcoupler microscopy (PROM). *Light: Science and Applications*, **2018**, 7,	16.7	14
137	Innovative Techniques for Evaluating Behavioral Nutrition Interventions. *Advances in Nutrition*, **2017**, 8, 113-125	10	21
136	Isolation, Detection, and Quantification of Cancer Biomarkers in HPV-Associated Malignancies. *Scientific Reports*, **2017**, 7, 3322	4.9	17
135	Non-conservative forces in bulk systems. *Materials Science and Technology*, **2017**, 33, 1442-1446	1.5	0
134	Nanoantenna-Microcavity Hybrids with Highly Cooperative Plasmonic-Photonic Coupling. *Nano Letters*, **2017**, 17, 7569-7577	11.5	41
133	Label-free Imaging of Stem Cell Adhesion and Dynamic Tracking of Boundary Evolution Using Photonic Crystal Enhanced Microscopy (PCEM). *Microscopy and Microanalysis*, **2017**, 23, 1142-1143	0.5	1
132	Mobile biosensing using the sensing capabilities of smartphone cameras **2017**,		1
131	Quantum dot emission modulation using piezoelectric photonic crystal MEMS resonators. *Optics Express*, **2017**, 25, 25831-25841	3.3	1
130	Mobile Platform for Multiplexed Detection and Differentiation of Disease-Specific Nucleic Acid Sequences, Using Microfluidic Loop-Mediated Isothermal Amplification and Smartphone Detection. *Analytical Chemistry*, **2017**, 89, 11219-11226	7.8	48
129	Resonant Mode Engineering of Photonic Crystal Sensors Clad with Ultralow Refractive Index Porous Silicon Dioxide. *Advanced Optical Materials*, **2017**, 5, 1700605	8.1	21
128	Multimode smartphone biosensing: the transmission, reflection, and intensity spectral (TRI)-analyzer. *Lab on A Chip*, **2017**, 17, 3246-3257	7.2	47

127	Photonic crystals: emerging biosensors and their promise for point-of-care applications. *Chemical Society Reviews*, **2017**, 46, 366-388	58.5	238
126	Comparison of Methods Study between a Photonic Crystal Biosensor and Certified ELISA to Measure Biomarkers of Iron Deficiency in Chronic Kidney Disease Patients. *Sensors*, **2017**, 17,	3.8	4
125	Application of photonic crystal enhanced fluorescence to detection of low serum concentrations of human IgE antibodies specific for a purified cat allergen (Fel D1). *Biosensors and Bioelectronics*, **2016**, 77, 194-201	11.8	17
124	Recent Advances in Biosensing With Photonic Crystal Surfaces: A Review. *IEEE Sensors Journal*, **2016**, 16, 3349-3366	4	47
123	Quantitative Imaging of Cell Membrane-associated Effective Mass Density Using Photonic Crystal Enhanced Microscopy (PCEM). *Progress in Quantum Electronics*, **2016**, 50, 1-18	9.1	7
122	Porous photonic crystal external cavity laser biosensor. *Applied Physics Letters*, **2016**, 109, 071103	3.4	15
121	Lasing Emission from Plasmonic Nanodome Arrays. *Advanced Optical Materials*, **2016**, 4, 708-714	8.1	11
120	Characterization of drug authenticity using thin-layer chromatography imaging with a mobile phone. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 125, 85-93	3.5	42
119	An automated microfluidic assay for the detection of cancer biomarkers in serum using photonic crystal enhanced fluorescence **2016**,		2
118	Compact characterization of liquid absorption and emission spectra using linear variable filters integrated with a CMOS imaging camera. *Scientific Reports*, **2016**, 6, 29117	4.9	12
117	Enhanced emission of quantum dots embedded within the high-index dielectric regions of photonic crystal slabs. *Applied Physics Letters*, **2016**, 108, 171108	3.4	4
116	Smartphone-based thin layer chromatography for the discrimination of falsified medicines **2016**,		4
115	Achieving uniformity and reproducibility for photonic crystal fluorescence enhanced disease diagnostic microarrays **2016**,		2
114	Enhanced sandwich immunoassay using antibody-functionalized magnetic iron-oxide nanoparticles for extraction and detection of soluble transferrin receptor on a photonic crystal biosensor. *Biosensors and Bioelectronics*, **2015**, 74, 815-22	11.8	50
113	Region specific enhancement of quantum dot emission using interleaved two-dimensional photonic crystals. *Applied Optics*, **2015**, 54, 2302-8	1.7	6
112	Polarized quantum dot emission in electrohydrodynamic jet printed photonic crystals. *Applied Physics Letters*, **2015**, 107, 051101	3.4	11
111	Smartphone-Imaged HIV-1 Reverse-Transcription Loop-Mediated Isothermal Amplification (RT-LAMP) on a Chip from Whole Blood. *Engineering*, **2015**, 1, 324-335	9.7	62
110	Planar Photonic Crystal Biosensor for Quantitative Label-Free Cell Attachment Microscopy. *Advanced Optical Materials*, **2015**, 3, 1623-1632	8.1	13

109	Nonconservative current-driven dynamics: beyond the nanoscale. *Beilstein Journal of Nanotechnology*, **2015**, 6, 2140-7	3	6
108	Label-Free Biosensor Imaging on Photonic Crystal Surfaces. *Sensors*, **2015**, 15, 21613-35	3.8	38
107	High sensitivity automated multiplexed immunoassays using photonic crystal enhanced fluorescence microfluidic system. *Biosensors and Bioelectronics*, **2015**, 73, 32-40	11.8	34
106	Direct detection of transcription factors in cotyledons during seedling development using sensitive silicon-substrate photonic crystal protein arrays. *Plant Physiology*, **2015**, 167, 639-49	6.6	10
105	Nanostructured optical photonic crystal biosensor for HIV viral load measurement. *Scientific Reports*, **2014**, 4, 4116	4.9	111
104	Plasmonic external cavity laser refractometric sensor. *Optics Express*, **2014**, 22, 20347-57	3.3	15
103	Point-of-care detection and real-time monitoring of intravenously delivered drugs via tubing with an integrated SERS sensor. *Nanoscale*, **2014**, 6, 5162-71	7.7	50
102	Single nanoparticle detection using photonic crystal enhanced microscopy. *Analyst, The*, **2014**, 139, 1007-15	5	58
101	Enhanced live cell imaging via photonic crystal enhanced fluorescence microscopy. *Analyst, The*, **2014**, 139, 5954-63	5	39
100	Detection of protein-small molecule binding using a self-referencing external cavity laser biosensor. *Journal of the American Chemical Society*, **2014**, 136, 5840-3	16.4	23
99	Smartphone fluorescence spectroscopy. *Analytical Chemistry*, **2014**, 86, 8805-13	7.8	197
98	Electrohydrodynamic jet printing of micro-optical devices. *Manufacturing Letters*, **2014**, 2, 4-7	4.5	27
97	Recognition of apoptotic cells by viable cells is specific, ubiquitous, and species independent: analysis using photonic crystal biosensors. *Molecular Biology of the Cell*, **2014**, 25, 1704-14	3.5	10
96	Coupled external cavity photonic crystal enhanced fluorescence. *Journal of Biophotonics*, **2014**, 7, 332-40	3.1	10
95	Sculpting narrowband Fano resonances inherent in the large-area mid-infrared photonic crystal microresonators for spectroscopic imaging. *Optics Express*, **2014**, 22, 18142-58	3.3	28
94	Nanofluidic channels of arbitrary shapes fabricated by tip-based nanofabrication. *Nanotechnology*, **2014**, 25, 455301	3.4	18
93	Smartphone instrument for portable enzyme-linked immunosorbent assays. *Biomedical Optics Express*, **2014**, 5, 3792-806	3.5	100
92	A photonic crystal biosensor assay for ferritin utilizing iron-oxide nanoparticles. *Biosensors and Bioelectronics*, **2014**, 56, 320-7	11.8	39

91	Enhanced fluorescence emission using a photonic crystal coupled to an optical cavity. *Applied Physics Letters*, **2013**, 102, 221114	3.4	18
90	Photonic crystal enhanced microscopy for imaging of live cell adhesion. *Analyst, The*, **2013**, 138, 5886-94	5	68
89	Sensitive detection of protein and miRNA cancer biomarkers using silicon-based photonic crystals and a resonance coupling laser scanning platform. *Lab on A Chip*, **2013**, 13, 4053-64	7.2	51
88	Nanostructured surfaces and detection instrumentation for photonic crystal enhanced fluorescence. *Sensors*, **2013**, 13, 5561-84	3.8	31
87	Distributed Feedback Laser Biosensor Noise Reduction. *IEEE Sensors Journal*, **2013**, 13, 1972-1978	4	12
86	Colorimetric Plasmon Resonance Imaging Using Nano Lycurgus Cup Arrays. *Advanced Optical Materials*, **2013**, 1, 68-76	8.1	87
85	Label-free biodetection using a smartphone. *Lab on A Chip*, **2013**, 13, 2124-32	7.2	233
84	External cavity laser biosensor. *Lab on A Chip*, **2013**, 13, 1247-56	7.2	26
83	A self-referencing biosensor based upon a dual-mode external cavity laser. *Applied Physics Letters*, **2013**, 102, 213701	3.4	14
82	Large infrared absorptance of bimaterial microcantilevers based on silicon high contrast grating. *Journal of Applied Physics*, **2013**, 114, 153511	2.5	1
81	Multiplexed cancer biomarker detection using quartz-based photonic crystal surfaces. *Analytical Chemistry*, **2012**, 84, 1126-33	7.8	27
80	Biochemical sensor tubing for point-of-care monitoring of intravenous drugs and metabolites. *Lab on A Chip*, **2012**, 12, 574-81	7.2	34
79	Plasmonic nanogap-enhanced Raman scattering using a resonant nanodome array. *Small*, **2012**, 8, 2878-85	11	112
78	Tunable ring laser with internal injection seeding and an optically-driven photonic crystal reflector. *Optics Express*, **2012**, 20, 14292-301	3.3	3
77	Line-scanning detection instrument for photonic crystal enhanced fluorescence. *Optics Letters*, **2012**, 37, 2565-7	3	10
76	An ignition key for atomic-scale engines. *Journal of Physics Condensed Matter*, **2012**, 24, 402203	1.8	5
75	Enhanced quantum dot optical down-conversion using asymmetric 2D photonic crystals. *Optics Express*, **2011**, 19, 3908-18	3.3	16
74	Enhancement of pump efficiency of a visible wavelength organic distributed feedback laser by resonant optical pumping. *Optics Express*, **2011**, 19, 5086-92	3.3	10

73	Spatially selective photonic crystal enhanced fluorescence and application to background reduction for biomolecule detection assays. *Optics Express*, **2011**, 19, 23327-40	3.3	12
72	Optimally designed narrowband guided-mode resonance reflectance filters for mid-infrared spectroscopy. *Optics Express*, **2011**, 19, 24182-97	3.3	53
71	Label-free cell-based assays using photonic crystal optical biosensors. *Analyst, The*, **2011**, 136, 1090-102	5	86
70	Design and Implementation of Vertically Emitting Distributed Feedback Lasers for Biological Sensing **2011**, 27-40		
69	Photobleaching on photonic crystal enhanced fluorescence surfaces. *Journal of Fluorescence*, **2011**, 21, 707-14	2.4	8
68	Quick detection of contaminants leaching from polypropylene centrifuge tubes with surface-enhanced Raman spectroscopy and ultraviolet absorption spectroscopy. *Journal of Raman Spectroscopy*, **2011**, 42, 1939-1944	2.3	15
67	Label-free imaging of cell attachment with photonic crystal enhanced microscopy. *Analyst, The*, **2011**, 136, 3608-15	5	25
66	Application of photonic crystal enhanced fluorescence to cancer biomarker microarrays. *Analytical Chemistry*, **2011**, 83, 1425-30	7.8	86
65	Small molecule inhibition of the TNF family cytokine CD40 ligand through a subunit fracture mechanism. *ACS Chemical Biology*, **2011**, 6, 636-47	4.9	41
64	Plasmonic coupling of SiO2/Ag post-cap nanostructures and silver film for surface enhanced Raman scattering. *Applied Physics Letters*, **2011**, 98, 153103	3.4	32
63	PHOTONIC CRYSTALS FOR BIOSENSING **2011**, 329-358		
62	Surface-enhanced Raman nanodomes. *Nanotechnology*, **2010**, 21, 415301	3.4	81
61	Photonic Crystal Surfaces as a General Purpose Platform for Label-Free and Fluorescent Assays. *Journal of the Association for Laboratory Automation*, **2010**, 15, 120-135		29
60	Deposited nanorod films for photonic crystal biosensor applications. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2010**, 28, 996-1001	2.9	12
59	Magnification of photonic crystal fluorescence enhancement via TM resonance excitation and TE resonance extraction on a dielectric nanorod surface. *Nanotechnology*, **2010**, 21, 125203	3.4	16
58	Narrowband midinfrared reflectance filters using guided mode resonance. *Analytical Chemistry*, **2010**, 82, 5697-706	7.8	45
57	Coupling discrete metal nanoparticles to photonic crystal surface resonant modes and application to Raman spectroscopy. *Optics Express*, **2010**, 18, 4300-9	3.3	50
56	Integrated 2D photonic crystal stack filter fabricated using nanoreplica molding. *Optics Express*, **2010**, 18, 11846-58	3.3	7

55	Large-area organic distributed feedback laser fabricated by nanoreplica molding and horizontal dipping. *Optics Express*, **2010**, 18, 12980-91	3.3	39
54	Photonic crystal enhanced fluorescence using a quartz substrate to reduce limits of detection. *Optics Express*, **2010**, 18, 24793-808	3.3	64
53	Distributed feedback laser biosensor incorporating a titanium dioxide nanorod surface. *Applied Physics Letters*, **2010**, 96, 163702	3.4	32
52	Improved sensitivity of DNA microarrays using photonic crystal enhanced fluorescence. *Analytical Chemistry*, **2010**, 82, 6854-61	7.8	42
51	Vapor-Phase Deposition of Monofunctional Alkoxysilanes for Sub-Nanometer-Level Biointerfacing on Silicon Oxide Surfaces. *Advanced Functional Materials*, **2010**, 20, 87-95	15.6	33
50	Detection of growth factor binding to gelatin and heparin using a photonic crystal optical biosensor. *Materials Science and Engineering C*, **2010**, 30, 686-690	8.3	4
49	Comparison of label-free biosensing in microplate, microfluidic, and spot-based affinity capture assays. *Analytical Biochemistry*, **2010**, 405, 1-10	3.1	33
48	Employing two distinct photonic crystal resonances to improve fluorescence enhancement. *Applied Physics Letters*, **2009**, 95, 21111	3.4	38
47	A Method for Identifying Small-Molecule Aggregators Using Photonic Crystal Biosensor Microplates. *Journal of the Association for Laboratory Automation*, **2009**, 14, 348-359		15
46	Identifying modulators of protein-protein interactions using photonic crystal biosensors. *Journal of the American Chemical Society*, **2009**, 131, 18202-3	16.4	39
45	A detection instrument for enhanced-fluorescence and label-free imaging on photonic crystal surfaces. *Optics Express*, **2009**, 17, 13222-35	3.3	55
44	Rapid Specific and Label-Free Detection of Porcine Rotavirus Using Photonic Crystal Biosensors. *IEEE Sensors Journal*, **2009**, 9, 470-477	4	59
43	Microfluidic chip for combinatorial mixing and screening of assays. *Lab on A Chip*, **2009**, 9, 1676-80	7.2	66
42	Label-Free Photonic Crystal Biosensor Integrated Microfluidic Chip for Determination of Kinetic Reaction Rate Constants. *IEEE Sensors Journal*, **2009**, 9, 1697-1704	4	30
41	A general method for discovering inhibitors of protein-DNA interactions using photonic crystal biosensors. *ACS Chemical Biology*, **2008**, 3, 437-48	4.9	52
40	VCSEL Optoelectronic Biosensor for Detection of Infectious Diseases. *IEEE Photonics Technology Letters*, **2008**, 20, 443-445	2.2	17
39	Leaky-mode assisted fluorescence extraction: application to fluorescence enhancement biosensors. *Optics Express*, **2008**, 16, 21626-40	3.3	83
38	High Sensitivity Plastic-Substrate Photonic Crystal Biosensor. *IEEE Sensors Journal*, **2008**, 8, 1546-1547	4	16

37	A Sensitivity Model for Predicting Photonic Crystal Biosensor Performance. *IEEE Sensors Journal*, **2008**, 8, 274-280	4	76
36	Application of photonic crystal enhanced fluorescence to a cytokine immunoassay. *Analytical Chemistry*, **2008**, 80, 9013-20	7.8	74
35	Advantages and application of label-free detection assays in drug screening. *Expert Opinion on Drug Discovery*, **2008**, 3, 891-901	6.2	29
34	Photonic crystals with SiO2/Ag /post-cap/nanostructure coatings for surface enhanced Raman spectroscopy. *Applied Physics Letters*, **2008**, 93, 143112	3.4	28
33	Distance dependence of fluorescence enhancement from photonic crystal surfaces. *Journal of Applied Physics*, **2008**, 103, 083104	2.5	40
32	Optically tuned resonant optical reflectance filter. *Applied Physics Letters*, **2008**, 92, 091115	3.4	39
31	Fluorescence enhancement by a photonic crystal with a nanorod-structured high index layer. *Applied Physics Letters*, **2008**, 93, 133115	3.4	17
30	Enhanced fluorescence on a photonic crystal surface incorporating nanorod structures. *Small*, **2008**, 4, 2199-203	11	44
29	Label-free imaging of cancer cells using photonic crystal biosensors and application to cytotoxicity screening of a natural compound library. *Sensors and Actuators B: Chemical*, **2008**, 132, 418-425	8.5	40
28	High sensitivity photonic crystal biosensor incorporating nanorod structures for enhanced surface area. *Sensors and Actuators B: Chemical*, **2008**, 131, 279-284	8.5	85
27	A replica molding technique for producing fibrous chitosan scaffolds for cartilage engineering. *Journal of Materials Chemistry*, **2007**, 17, 4095		13
26	A 96-well microplate incorporating a replica molded microfluidic network integrated with photonic crystal biosensors for high throughput kinetic biomolecular interaction analysis. *Lab on A Chip*, **2007**, 7, 550-6	7.2	73
25	Large-area submicron replica molding of porous low-k dielectric films and application to photonic crystal biosensor fabrication. *Microelectronic Engineering*, **2007**, 84, 603-608	2.5	42
24	Self-referenced assay method for photonic crystal biosensors: Application to small molecule analytes. *Sensors and Actuators B: Chemical*, **2007**, 120, 392-398	8.5	23
23	Enhanced fluorescence emission from quantum dots on a photonic crystal surface. *Nature Nanotechnology*, **2007**, 2, 515-20	28.7	354
22	A label-free photonic crystal biosensor imaging method for detection of cancer cell cytotoxicity and proliferation. *Apoptosis: an International Journal on Programmed Cell Death*, **2007**, 12, 1061-8	5.4	76
21	Voltage-tuned resonant reflectance optical filter for visible wavelengths fabricated by nanoreplica molding. *Applied Physics Letters*, **2007**, 90, 261109	3.4	19
20	Microcavity Plasma Devices and Arrays Fabricated by Plastic-Based Replica Molding. *Journal of Microelectromechanical Systems*, **2007**, 16, 1397-1402	2.5	16

19	Photonic crystal optical biosensor incorporating structured low-index porous dielectric. *Sensors and Actuators B: Chemical*, **2006**, 120, 187-193	8.5	94
18	Microplate-based, label-free detection of biomolecular interactions: applications in proteomics. *Expert Review of Proteomics*, **2006**, 3, 271-81	4.2	72
17	Fabrication of a graded-wavelength guided-mode resonance filter photonic crystal. *Applied Physics Letters*, **2006**, 89, 123113	3.4	40
16	Photonic-crystal near-ultraviolet reflectance filters fabricated by nanoreplica molding. *Applied Physics Letters*, **2006**, 88, 071110	3.4	38
15	A Self-Referencing Method for Microplate Label-Free Photonic-Crystal Biosensors. *IEEE Sensors Journal*, **2006**, 6, 1551-1556	4	17
14	Single-step fabrication and characterization of photonic crystal biosensors with polymer microfluidic channels. *Lab on A Chip*, **2006**, 6, 1373-80	7.2	65
13	A label-free biosensor-based cell attachment assay for characterization of cell surface molecules. *Sensors and Actuators B: Chemical*, **2006**, 114, 559-564	8.5	47
12	A new method for label-free imaging of biomolecular interactions. *Sensors and Actuators B: Chemical*, **2004**, 99, 6-13	8.5	78
11	Detection of proteins and intact microorganisms using microfabricated flexural plate silicon resonator arrays. *Sensors and Actuators B: Chemical*, **2003**, 96, 565-575	8.5	29
10	A plastic colorimetric resonant optical biosensor for multiparallel detection of label-free biochemical interactions. *Sensors and Actuators B: Chemical*, **2002**, 85, 219-226	8.5	166
9	Enhancing the surface sensitivity of colorimetric resonant optical biosensors. *Sensors and Actuators B: Chemical*, **2002**, 87, 365-370	8.5	65
8	A label-free optical technique for detecting small molecule interactions. *Biosensors and Bioelectronics*, **2002**, 17, 827-34	11.8	73
7	Colorimetric resonant reflection as a direct biochemical assay technique. *Sensors and Actuators B: Chemical*, **2002**, 81, 316-328	8.5	245
6	Design, fabrication and vapor characterization of a microfabricated flexural plate resonator sensor and application to integrated sensor arrays. *Sensors and Actuators B: Chemical*, **2001**, 73, 112-123	8.5	30
5	Microscopy in the Real World - Instrumentation Requirements. *Microscopy and Microanalysis*, **2001**, 7, 524-525	0.5	
4	Silicon micromachining to tissue engineer branched vascular channels for liver fabrication. *Tissue Engineering*, **2000**, 6, 105-17		277
3	Microstructural effects of emitter size on polysilicon-emitter bipolar transistors. *Journal of Applied Physics*, **1991**, 70, 5318-5322	2.5	2
2	Characterization of polycrystalline silicon/single-crystal silicon interfaces and correlation to bipolar transistor device data. *Journal of Applied Physics*, **1991**, 69, 495-498	2.5	12

1	Heteroepitaxial growth of Ge on (100) Si by ultrahigh vacuum, chemical vapor deposition. *Applied Physics Letters*, **1991**, 59, 3574-3576	3.4	99