

Brian T Cunningham

List of Publications by Citations

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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.

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	Enhanced fluorescence emission from quantum dots on a photonic crystal surface. <i>Nature Nanotechnology</i> , 2007 , 2, 515-20	28.7	354
161	Silicon micromachining to tissue engineer branched vascular channels for liver fabrication. <i>Tissue Engineering</i> , 2000 , 6, 105-17		277
160	Colorimetric resonant reflection as a direct biochemical assay technique. <i>Sensors and Actuators B: Chemical</i> , 2002 , 81, 316-328	8.5	245
159	Photonic crystals: emerging biosensors and their promise for point-of-care applications. <i>Chemical Society Reviews</i> , 2017 , 46, 366-388	58.5	238
158	Label-free biodetection using a smartphone. <i>Lab on A Chip</i> , 2013 , 13, 2124-32	7.2	233
157	Smartphone fluorescence spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 8805-13	7.8	197
156	A plastic colorimetric resonant optical biosensor for multiparallel detection of label-free biochemical interactions. <i>Sensors and Actuators B: Chemical</i> , 2002 , 85, 219-226	8.5	166
155	Rapid isothermal amplification and portable detection system for SARS-CoV-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22727-22735	11.5	164
154	Plasmonic nanogap-enhanced Raman scattering using a resonant nanodome array. <i>Small</i> , 2012 , 8, 2878-85		112
153	Nanostructured optical photonic crystal biosensor for HIV viral load measurement. <i>Scientific Reports</i> , 2014 , 4, 4116	4.9	111
152	Smartphone instrument for portable enzyme-linked immunosorbent assays. <i>Biomedical Optics Express</i> , 2014 , 5, 3792-806	3.5	100
151	Heteroepitaxial growth of Ge on (100) Si by ultrahigh vacuum, chemical vapor deposition. <i>Applied Physics Letters</i> , 1991 , 59, 3574-3576	3.4	99
150	Photonic crystal optical biosensor incorporating structured low-index porous dielectric. <i>Sensors and Actuators B: Chemical</i> , 2006 , 120, 187-193	8.5	94
149	Colorimetric Plasmon Resonance Imaging Using Nano Lycurgus Cup Arrays. <i>Advanced Optical Materials</i> , 2013 , 1, 68-76	8.1	87
148	Label-free cell-based assays using photonic crystal optical biosensors. <i>Analyst, The</i> , 2011 , 136, 1090-102	5	86
147	Application of photonic crystal enhanced fluorescence to cancer biomarker microarrays. <i>Analytical Chemistry</i> , 2011 , 83, 1425-30	7.8	86
146	High sensitivity photonic crystal biosensor incorporating nanorod structures for enhanced surface area. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 279-284	8.5	85

145	Leaky-mode assisted fluorescence extraction: application to fluorescence enhancement biosensors. <i>Optics Express</i> , 2008 , 16, 21626-40	3.3	83
144	Surface-enhanced Raman nanodomains. <i>Nanotechnology</i> , 2010 , 21, 415301	3.4	81
143	A new method for label-free imaging of biomolecular interactions. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 6-13	8.5	78
142	A Sensitivity Model for Predicting Photonic Crystal Biosensor Performance. <i>IEEE Sensors Journal</i> , 2008 , 8, 274-280	4	76
141	A label-free photonic crystal biosensor imaging method for detection of cancer cell cytotoxicity and proliferation. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007 , 12, 1061-8	5.4	76
140	Application of photonic crystal enhanced fluorescence to a cytokine immunoassay. <i>Analytical Chemistry</i> , 2008 , 80, 9013-20	7.8	74
139	A 96-well microplate incorporating a replica molded microfluidic network integrated with photonic crystal biosensors for high throughput kinetic biomolecular interaction analysis. <i>Lab on A Chip</i> , 2007 , 7, 550-6	7.2	73
138	A label-free optical technique for detecting small molecule interactions. <i>Biosensors and Bioelectronics</i> , 2002 , 17, 827-34	11.8	73
137	Microplate-based, label-free detection of biomolecular interactions: applications in proteomics. <i>Expert Review of Proteomics</i> , 2006 , 3, 271-81	4.2	72
136	Photonic crystal enhanced microscopy for imaging of live cell adhesion. <i>Analyst, The</i> , 2013 , 138, 5886-94	5	68
135	Smartphone-based multiplex 30-minute nucleic acid test of live virus from nasal swab extract. <i>Lab on A Chip</i> , 2020 , 20, 1621-1627	7.2	68
134	Microfluidic chip for combinatorial mixing and screening of assays. <i>Lab on A Chip</i> , 2009 , 9, 1676-80	7.2	66
133	Single-step fabrication and characterization of photonic crystal biosensors with polymer microfluidic channels. <i>Lab on A Chip</i> , 2006 , 6, 1373-80	7.2	65
132	Enhancing the surface sensitivity of colorimetric resonant optical biosensors. <i>Sensors and Actuators B: Chemical</i> , 2002 , 87, 365-370	8.5	65
131	Photonic crystal enhanced fluorescence using a quartz substrate to reduce limits of detection. <i>Optics Express</i> , 2010 , 18, 24793-808	3.3	64
130	Smartphone-Imaged HIV-1 Reverse-Transcription Loop-Mediated Isothermal Amplification (RT-LAMP) on a Chip from Whole Blood. <i>Engineering</i> , 2015 , 1, 324-335	9.7	62
129	Rapid Specific and Label-Free Detection of Porcine Rotavirus Using Photonic Crystal Biosensors. <i>IEEE Sensors Journal</i> , 2009 , 9, 470-477	4	59
128	Single nanoparticle detection using photonic crystal enhanced microscopy. <i>Analyst, The</i> , 2014 , 139, 10075	15	58

127	A detection instrument for enhanced-fluorescence and label-free imaging on photonic crystal surfaces. <i>Optics Express</i> , 2009 , 17, 13222-35	3.3	55
126	Optimally designed narrowband guided-mode resonance reflectance filters for mid-infrared spectroscopy. <i>Optics Express</i> , 2011 , 19, 24182-97	3.3	53
125	A general method for discovering inhibitors of protein-DNA interactions using photonic crystal biosensors. <i>ACS Chemical Biology</i> , 2008 , 3, 437-48	4.9	52
124	Sensitive detection of protein and miRNA cancer biomarkers using silicon-based photonic crystals and a resonance coupling laser scanning platform. <i>Lab on A Chip</i> , 2013 , 13, 4053-64	7.2	51
123	Enhanced sandwich immunoassay using antibody-functionalized magnetic iron-oxide nanoparticles for extraction and detection of soluble transferrin receptor on a photonic crystal biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 815-22	11.8	50
122	Point-of-care detection and real-time monitoring of intravenously delivered drugs via tubing with an integrated SERS sensor. <i>Nanoscale</i> , 2014 , 6, 5162-71	7.7	50
121	Coupling discrete metal nanoparticles to photonic crystal surface resonant modes and application to Raman spectroscopy. <i>Optics Express</i> , 2010 , 18, 4300-9	3.3	50
120	Mobile Platform for Multiplexed Detection and Differentiation of Disease-Specific Nucleic Acid Sequences, Using Microfluidic Loop-Mediated Isothermal Amplification and Smartphone Detection. <i>Analytical Chemistry</i> , 2017 , 89, 11219-11226	7.8	48
119	Recent Advances in Biosensing With Photonic Crystal Surfaces: A Review. <i>IEEE Sensors Journal</i> , 2016 , 16, 3349-3366	4	47
118	Multimode smartphone biosensing: the transmission, reflection, and intensity spectral (TRI)-analyzer. <i>Lab on A Chip</i> , 2017 , 17, 3246-3257	7.2	47
117	A label-free biosensor-based cell attachment assay for characterization of cell surface molecules. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 559-564	8.5	47
116	Narrowband midinfrared reflectance filters using guided mode resonance. <i>Analytical Chemistry</i> , 2010 , 82, 5697-706	7.8	45
115	Enhanced fluorescence on a photonic crystal surface incorporating nanorod structures. <i>Small</i> , 2008 , 4, 2199-203	11	44
114	Spectroscopic Size and Thickness Metrics for Liquid-Exfoliated h-BN. <i>Chemistry of Materials</i> , 2018 , 30, 1998-2005	9.6	43
113	Characterization of drug authenticity using thin-layer chromatography imaging with a mobile phone. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 125, 85-93	3.5	42
112	Improved sensitivity of DNA microarrays using photonic crystal enhanced fluorescence. <i>Analytical Chemistry</i> , 2010 , 82, 6854-61	7.8	42
111	Large-area submicron replica molding of porous low-k dielectric films and application to photonic crystal biosensor fabrication. <i>Microelectronic Engineering</i> , 2007 , 84, 603-608	2.5	42
110	Nanoantenna-Microcavity Hybrids with Highly Cooperative Plasmonic-Photonic Coupling. <i>Nano Letters</i> , 2017 , 17, 7569-7577	11.5	41

109	Small molecule inhibition of the TNF family cytokine CD40 ligand through a subunit fracture mechanism. <i>ACS Chemical Biology</i> , 2011 , 6, 636-47	4.9	41
108	Distance dependence of fluorescence enhancement from photonic crystal surfaces. <i>Journal of Applied Physics</i> , 2008 , 103, 083104	2.5	40
107	Label-free imaging of cancer cells using photonic crystal biosensors and application to cytotoxicity screening of a natural compound library. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 418-425	8.5	40
106	Fabrication of a graded-wavelength guided-mode resonance filter photonic crystal. <i>Applied Physics Letters</i> , 2006 , 89, 123113	3.4	40
105	Enhanced live cell imaging via photonic crystal enhanced fluorescence microscopy. <i>Analyst, The</i> , 2014 , 139, 5954-63	5	39
104	A photonic crystal biosensor assay for ferritin utilizing iron-oxide nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 320-7	11.8	39
103	Large-area organic distributed feedback laser fabricated by nanoreplica molding and horizontal dipping. <i>Optics Express</i> , 2010 , 18, 12980-91	3.3	39
102	Identifying modulators of protein-protein interactions using photonic crystal biosensors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18202-3	16.4	39
101	Optically tuned resonant optical reflectance filter. <i>Applied Physics Letters</i> , 2008 , 92, 091115	3.4	39
100	Label-Free Biosensor Imaging on Photonic Crystal Surfaces. <i>Sensors</i> , 2015 , 15, 21613-35	3.8	38
99	Employing two distinct photonic crystal resonances to improve fluorescence enhancement. <i>Applied Physics Letters</i> , 2009 , 95, 21111	3.4	38
98	Photonic-crystal near-ultraviolet reflectance filters fabricated by nanoreplica molding. <i>Applied Physics Letters</i> , 2006 , 88, 071110	3.4	38
97	High sensitivity automated multiplexed immunoassays using photonic crystal enhanced fluorescence microfluidic system. <i>Biosensors and Bioelectronics</i> , 2015 , 73, 32-40	11.8	34
96	Biochemical sensor tubing for point-of-care monitoring of intravenous drugs and metabolites. <i>Lab on A Chip</i> , 2012 , 12, 574-81	7.2	34
95	Vapor-Phase Deposition of Monofunctional Alkoxysilanes for Sub-Nanometer-Level Biointerfacing on Silicon Oxide Surfaces. <i>Advanced Functional Materials</i> , 2010 , 20, 87-95	15.6	33
94	Comparison of label-free biosensing in microplate, microfluidic, and spot-based affinity capture assays. <i>Analytical Biochemistry</i> , 2010 , 405, 1-10	3.1	33
93	Distributed feedback laser biosensor incorporating a titanium dioxide nanorod surface. <i>Applied Physics Letters</i> , 2010 , 96, 163702	3.4	32
92	Plasmonic coupling of SiO ₂ /Ag post-capitnanostructures and silver film for surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2011 , 98, 153103	3.4	32

91	Nanostructured surfaces and detection instrumentation for photonic crystal enhanced fluorescence. <i>Sensors</i> , 2013 , 13, 5561-84	3.8	31
90	Label-Free Photonic Crystal Biosensor Integrated Microfluidic Chip for Determination of Kinetic Reaction Rate Constants. <i>IEEE Sensors Journal</i> , 2009 , 9, 1697-1704	4	30
89	Design, fabrication and vapor characterization of a microfabricated flexural plate resonator sensor and application to integrated sensor arrays. <i>Sensors and Actuators B: Chemical</i> , 2001 , 73, 112-123	8.5	30
88	Photonic Crystal Surfaces as a General Purpose Platform for Label-Free and Fluorescent Assays. <i>Journal of the Association for Laboratory Automation</i> , 2010 , 15, 120-135		29
87	Advantages and application of label-free detection assays in drug screening. <i>Expert Opinion on Drug Discovery</i> , 2008 , 3, 891-901	6.2	29
86	Detection of proteins and intact microorganisms using microfabricated flexural plate silicon resonator arrays. <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 565-575	8.5	29
85	Sculpting narrowband Fano resonances inherent in the large-area mid-infrared photonic crystal microresonators for spectroscopic imaging. <i>Optics Express</i> , 2014 , 22, 18142-58	3.3	28
84	Photonic crystals with SiO ₂ Ag post-cap/nanostructure coatings for surface enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2008 , 93, 143112	3.4	28
83	Electrohydrodynamic jet printing of micro-optical devices. <i>Manufacturing Letters</i> , 2014 , 2, 4-7	4.5	27
82	Multiplexed cancer biomarker detection using quartz-based photonic crystal surfaces. <i>Analytical Chemistry</i> , 2012 , 84, 1126-33	7.8	27
81	External cavity laser biosensor. <i>Lab on A Chip</i> , 2013 , 13, 1247-56	7.2	26
80	Point-of-use detection of ascorbic acid using a spectrometric smartphone-based system. <i>Food Chemistry</i> , 2019 , 272, 141-147	8.5	25
79	Label-free imaging of cell attachment with photonic crystal enhanced microscopy. <i>Analyst, The</i> , 2011 , 136, 3608-15	5	25
78	Digital-resolution detection of microRNA with single-base selectivity by photonic resonator absorption microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19362-19367	11.5	23
77	Detection of protein-small molecule binding using a self-referencing external cavity laser biosensor. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5840-3	16.4	23
76	Self-referenced assay method for photonic crystal biosensors: Application to small molecule analytes. <i>Sensors and Actuators B: Chemical</i> , 2007 , 120, 392-398	8.5	23
75	Design of anapole mode electromagnetic field enhancement structures for biosensing applications. <i>Optics Express</i> , 2019 , 27, 7196-7212	3.3	22
74	Innovative Techniques for Evaluating Behavioral Nutrition Interventions. <i>Advances in Nutrition</i> , 2017 , 8, 113-125	10	21

73	Resonant Mode Engineering of Photonic Crystal Sensors Clad with Ultralow Refractive Index Porous Silicon Dioxide. <i>Advanced Optical Materials</i> , 2017 , 5, 1700605	8.1	21
72	Voltage-tuned resonant reflectance optical filter for visible wavelengths fabricated by nanoreplica molding. <i>Applied Physics Letters</i> , 2007 , 90, 261109	3.4	19
71	Enhanced fluorescence emission using a photonic crystal coupled to an optical cavity. <i>Applied Physics Letters</i> , 2013 , 102, 221114	3.4	18
70	Nanofluidic channels of arbitrary shapes fabricated by tip-based nanofabrication. <i>Nanotechnology</i> , 2014 , 25, 455301	3.4	18
69	Single-step, wash-free digital immunoassay for rapid quantitative analysis of serological antibody against SARS-CoV-2 by photonic resonator absorption microscopy. <i>Talanta</i> , 2021 , 225, 122004	6.2	18
68	Application of photonic crystal enhanced fluorescence to detection of low serum concentrations of human IgE antibodies specific for a purified cat allergen (Fel D1). <i>Biosensors and Bioelectronics</i> , 2016 , 77, 194-201	11.8	17
67	Isolation, Detection, and Quantification of Cancer Biomarkers in HPV-Associated Malignancies. <i>Scientific Reports</i> , 2017 , 7, 3322	4.9	17
66	VCSEL Optoelectronic Biosensor for Detection of Infectious Diseases. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 443-445	2.2	17
65	Fluorescence enhancement by a photonic crystal with a nanorod-structured high index layer. <i>Applied Physics Letters</i> , 2008 , 93, 133115	3.4	17
64	A Self-Referencing Method for Microplate Label-Free Photonic-Crystal Biosensors. <i>IEEE Sensors Journal</i> , 2006 , 6, 1551-1556	4	17
63	Enhanced quantum dot optical down-conversion using asymmetric 2D photonic crystals. <i>Optics Express</i> , 2011 , 19, 3908-18	3.3	16
62	Magnification of photonic crystal fluorescence enhancement via TM resonance excitation and TE resonance extraction on a dielectric nanorod surface. <i>Nanotechnology</i> , 2010 , 21, 125203	3.4	16
61	High Sensitivity Plastic-Substrate Photonic Crystal Biosensor. <i>IEEE Sensors Journal</i> , 2008 , 8, 1546-1547	4	16
60	Microcavity Plasma Devices and Arrays Fabricated by Plastic-Based Replica Molding. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1397-1402	2.5	16
59	Porous photonic crystal external cavity laser biosensor. <i>Applied Physics Letters</i> , 2016 , 109, 071103	3.4	15
58	Plasmonic external cavity laser refractometric sensor. <i>Optics Express</i> , 2014 , 22, 20347-57	3.3	15
57	Quick detection of contaminants leaching from polypropylene centrifuge tubes with surface-enhanced Raman spectroscopy and ultraviolet absorption spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1939-1944	2.3	15
56	A Method for Identifying Small-Molecule Aggregators Using Photonic Crystal Biosensor Microplates. <i>Journal of the Association for Laboratory Automation</i> , 2009 , 14, 348-359		15

55	Analysis of Paper-Based Colorimetric Assays With a Smartphone Spectrometer. <i>IEEE Sensors Journal</i> , 2019 , 19, 508-514	4	15
54	A self-referencing biosensor based upon a dual-mode external cavity laser. <i>Applied Physics Letters</i> , 2013 , 102, 213701	3.4	14
53	Activate capture and digital counting (AC + DC) assay for protein biomarker detection integrated with a self-powered microfluidic cartridge. <i>Lab on A Chip</i> , 2019 , 19, 3943-3953	7.2	14
52	Quantitative analysis of focal adhesion dynamics using photonic resonator outcoupler microscopy (PROM). <i>Light: Science and Applications</i> , 2018 , 7,	16.7	14
51	Microcavity-Mediated Spectrally Tunable Amplification of Absorption in Plasmonic Nanoantennas. <i>Nano Letters</i> , 2019 , 19, 5297-5303	11.5	13
50	Planar Photonic Crystal Biosensor for Quantitative Label-Free Cell Attachment Microscopy. <i>Advanced Optical Materials</i> , 2015 , 3, 1623-1632	8.1	13
49	A replica molding technique for producing fibrous chitosan scaffolds for cartilage engineering. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4095		13
48	Critical Review: digital resolution biomolecular sensing for diagnostics and life science research. <i>Lab on A Chip</i> , 2020 , 20, 2816-2840	7.2	13
47	Distributed Feedback Laser Biosensor Noise Reduction. <i>IEEE Sensors Journal</i> , 2013 , 13, 1972-1978	4	12
46	Spatially selective photonic crystal enhanced fluorescence and application to background reduction for biomolecule detection assays. <i>Optics Express</i> , 2011 , 19, 23327-40	3.3	12
45	Deposited nanorod films for photonic crystal biosensor applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010 , 28, 996-1001	2.9	12
44	Characterization of polycrystalline silicon/single-crystal silicon interfaces and correlation to bipolar transistor device data. <i>Journal of Applied Physics</i> , 1991 , 69, 495-498	2.5	12
43	Enhanced Plasmonic Photocatalysis through Synergistic Plasmonic/Photonic Hybridization. <i>ACS Photonics</i> , 2020 , 7, 1994-2001	6.3	12
42	Compact characterization of liquid absorption and emission spectra using linear variable filters integrated with a CMOS imaging camera. <i>Scientific Reports</i> , 2016 , 6, 29117	4.9	12
41	Polarized quantum dot emission in electrohydrodynamic jet printed photonic crystals. <i>Applied Physics Letters</i> , 2015 , 107, 051101	3.4	11
40	Lasing Emission from Plasmonic Nanodome Arrays. <i>Advanced Optical Materials</i> , 2016 , 4, 708-714	8.1	11
39	Photonic resonator interferometric scattering microscopy. <i>Nature Communications</i> , 2021 , 12, 1744	17.4	11
38	Recognition of apoptotic cells by viable cells is specific, ubiquitous, and species independent: analysis using photonic crystal biosensors. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1704-14	3.5	10

37	Coupled external cavity photonic crystal enhanced fluorescence. <i>Journal of Biophotonics</i> , 2014 , 7, 332-403.1	10
36	Direct detection of transcription factors in cotyledons during seedling development using sensitive silicon-substrate photonic crystal protein arrays. <i>Plant Physiology</i> , 2015 , 167, 639-49	6.6 10
35	Enhancement of pump efficiency of a visible wavelength organic distributed feedback laser by resonant optical pumping. <i>Optics Express</i> , 2011 , 19, 5086-92	3.3 10
34	Line-scanning detection instrument for photonic crystal enhanced fluorescence. <i>Optics Letters</i> , 2012 , 37, 2565-7	3 10
33	High-Fidelity Single Molecule Quantification in a Flow Cytometer Using Multiparametric Optical Analysis. <i>ACS Nano</i> , 2020 , 14, 2324-2335	16.7 8
32	Photobleaching on photonic crystal enhanced fluorescence surfaces. <i>Journal of Fluorescence</i> , 2011 , 21, 707-14	2.4 8
31	Quantitative Imaging of Cell Membrane-associated Effective Mass Density Using Photonic Crystal Enhanced Microscopy (PCEM). <i>Progress in Quantum Electronics</i> , 2016 , 50, 1-18	9.1 7
30	Integrated 2D photonic crystal stack filter fabricated using nanoreplica molding. <i>Optics Express</i> , 2010 , 18, 11846-58	3.3 7
29	Region specific enhancement of quantum dot emission using interleaved two-dimensional photonic crystals. <i>Applied Optics</i> , 2015 , 54, 2302-8	1.7 6
28	Nonconservative current-driven dynamics: beyond the nanoscale. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2140-7	3 6
27	An ignition key for atomic-scale engines. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 402203	1.8 5
26	A compact photonic resonator absorption microscope for point of care digital resolution nucleic acid molecular diagnostics. <i>Biomedical Optics Express</i> , 2021 , 12, 4637-4650	3.5 5
25	An Automated Microfluidic Assay for Photonic Crystal Enhanced Detection and Analysis of an Antiviral Antibody Cancer Biomarker in Serum. <i>IEEE Sensors Journal</i> , 2018 , 18, 1464-1473	4 4
24	Integrated spectroscopic analysis system with low vertical height for measuring liquid or solid assays. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 935-943	8.5 4
23	Comparison of Methods Study between a Photonic Crystal Biosensor and Certified ELISA to Measure Biomarkers of Iron Deficiency in Chronic Kidney Disease Patients. <i>Sensors</i> , 2017 , 17,	3.8 4
22	Detection of growth factor binding to gelatin and heparin using a photonic crystal optical biosensor. <i>Materials Science and Engineering C</i> , 2010 , 30, 686-690	8.3 4
21	Microscopies Enabled by Photonic Metamaterials.. <i>Sensors</i> , 2022 , 22,	3.8 4
20	Enhanced emission of quantum dots embedded within the high-index dielectric regions of photonic crystal slabs. <i>Applied Physics Letters</i> , 2016 , 108, 171108	3.4 4

19	Smartphone-based thin layer chromatography for the discrimination of falsified medicines 2016 ,		4
18	Spectrometric Smartphone-Based System for Ibuprofen Quantification in Commercial Dosage Tablets. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 2593-2598	3.9	3
17	Tunable ring laser with internal injection seeding and an optically-driven photonic crystal reflector. <i>Optics Express</i> , 2012 , 20, 14292-301	3.3	3
16	Label-Free Digital Detection of Intact Virions by Enhanced Scattering Microscopy.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	3
15	Development of a Linker-Mediated Immunoassay Using Chemically Transitioned Nanosensors. <i>Analytical Chemistry</i> , 2020 , 92, 3627-3635	7.8	2
14	Microstructural effects of emitter size on polysilicon-emitter bipolar transistors. <i>Journal of Applied Physics</i> , 1991 , 70, 5318-5322	2.5	2
13	An automated microfluidic assay for the detection of cancer biomarkers in serum using photonic crystal enhanced fluorescence 2016 ,		2
12	Overcoming the limitations of COVID-19 diagnostics with nanostructures, nucleic acid engineering, and additive manufacturing. <i>Current Opinion in Solid State and Materials Science</i> , 2022 , 26, 100966	12	2
11	Achieving uniformity and reproducibility for photonic crystal fluorescence enhanced disease diagnostic microarrays 2016 ,		2
10	Label-free Imaging of Stem Cell Adhesion and Dynamic Tracking of Boundary Evolution Using Photonic Crystal Enhanced Microscopy (PCEM). <i>Microscopy and Microanalysis</i> , 2017 , 23, 1142-1143	0.5	1
9	Mobile biosensing using the sensing capabilities of smartphone cameras 2017 ,		1
8	Quantum dot emission modulation using piezoelectric photonic crystal MEMS resonators. <i>Optics Express</i> , 2017 , 25, 25831-25841	3.3	1
7	Large infrared absorptance of bimaterial microcantilevers based on silicon high contrast grating. <i>Journal of Applied Physics</i> , 2013 , 114, 153511	2.5	1
6	Digital-resolution and highly sensitive detection of multiple exosomal small RNAs by DNA toehold probe-based photonic resonator absorption microscopy.. <i>Talanta</i> , 2022 , 241, 123256	6.2	1
5	Non-conservative forces in bulk systems. <i>Materials Science and Technology</i> , 2017 , 33, 1442-1446	1.5	0
4	Detection and Digital Resolution Counting of Nanoparticles with Optical Resonators and Applications in Biosensing. <i>Chemosensors</i> , 2018 , 6, 13	4	0
3	Design and Implementation of Vertically Emitting Distributed Feedback Lasers for Biological Sensing 2011 , 27-40		
2	Microscopy in the Real World - Instrumentation Requirements. <i>Microscopy and Microanalysis</i> , 2001 , 7, 524-525	0.5	

- 1 PHOTONIC CRYSTALS FOR BIOSENSING **2011**, 329-358