

Andy Ng

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,703
citations

361413

20
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

2417
citing authors

#	ARTICLE	IF	CITATIONS
1	Long period grating based biosensor for the detection of Escherichia coli bacteria. Biosensors and Bioelectronics, 2012, 35, 308-312.	10.1	178
2	Duplexed aptamers: history, design, theory, and application to biosensing. Chemical Society Reviews, 2019, 48, 1390-1419.	38.1	149
3	Aptamer-Based Label-Free Impedimetric Biosensor for Detection of Progesterone. Analytical Chemistry, 2015, 87, 1075-1082.	6.5	140
4	Label-Free Voltammetric Aptasensor for the Sensitive Detection of Microcystin-LR Using Graphene-Modified Electrodes. Analytical Chemistry, 2014, 86, 7551-7557.	6.5	126
5	Selection and Identification of DNA Aptamers against Okadaic Acid for Biosensing Application. Analytical Chemistry, 2013, 85, 11794-11801.	6.5	117
6	Selection, Characterization, and Biosensing Application of High Affinity Congener-Specific Microcystin-Targeting Aptamers. Environmental Science & Technology, 2012, 46, 10697-10703.	10.0	109
7	Detection of bacteria using bacteriophages as recognition elements immobilized on long-period fiber gratings. Optics Express, 2011, 19, 7971.	3.4	108
8	A simple cassette as point-of-care diagnostic device for naked-eye colorimetric bacteria detection. Analyst, The, 2014, 139, 482-487.	3.5	92
9	High-throughput real-time electrochemical monitoring of LAMP for pathogenic bacteria detection. Biosensors and Bioelectronics, 2014, 58, 101-106.	10.1	66
10	Label-free bacteria detection using evanescent mode of a suspended core terahertz fiber. Optics Express, 2012, 20, 5344.	3.4	64
11	Microfluidic chain reaction of structurally programmed capillary flow events. Nature, 2022, 605, 464-469.	27.8	61
12	Ultra-rapid colorimetric assay for protease detection using magnetic nanoparticle-based biosensors. Analyst, The, 2013, 138, 3735.	3.5	51
13	Improving solubility and refolding efficiency of human VHs by a novel mutational approach. Protein Engineering, Design and Selection, 2006, 19, 503-509.	2.1	50
14	Ensemble multicolour FRET model enables barcoding at extreme FRET levels. Nature Nanotechnology, 2018, 13, 925-932.	31.5	49
15	Microfluidic Capillaric Circuit for Rapid and Facile Bacteria Detection. Analytical Chemistry, 2017, 89, 6846-6853.	6.5	45
16	A novel and rapid assay for HIV-1 protease detection using magnetic bead mediation. Biosensors and Bioelectronics, 2013, 41, 335-341.	10.1	42
17	Sensitive Detection of ssDNA Using an LRET-Based Upconverting Nanohybrid Material. ACS Applied Materials & Interfaces, 2015, 7, 18257-18265.	8.0	40
18	Comprehensive profiling of the ligand binding landscapes of duplexed aptamer families reveals widespread induced fit. Nature Communications, 2018, 9, 343.	12.8	40

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19	Design and Solution Structure of a Well-Folded Stack of Two \hat{I}^2 -Hairpins Based on the Amino-Terminal Fragment of Human Granulin \hat{A} . <i>Biochemistry</i> , 2000, 39, 2878-2886.	2.5	34
20	Complementary oligonucleotides regulate induced fit ligand binding in duplexed aptamers. <i>Chemical Science</i> , 2017, 8, 2251-2256.	7.4	27
21	Wash-less and highly sensitive assay for prostate specific antigen detection. <i>Analyst, The</i> , 2012, 137, 5614.	3.5	20
22	One-Step Assay for Optical Prostate Specific Antigen Detection Using Magnetically Engineered Responsive Thin Film. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1123-1129.	1.1	17
23	Mechanically Matched Silicone Brain Implants Reduce Brain Foreign Body Response. <i>Advanced Materials Technologies</i> , 2021, 6, 2000909.	5.8	16
24	Molecular Interactions of the $G\hat{I}^2$ Binding Domain of the Ste20p/PAK Family of Protein Kinases. <i>Journal of Biological Chemistry</i> , 2001, 276, 41205-41212.	3.4	14
25	Recent progress in prostate-specific antigen and HIV proteases detection. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 707-718.	3.1	13
26	Development of an Anti-Vascular Cell Adhesion Protein-1 Aptamer for Molecular Imaging and Inflammation Detection in Transgenic. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 2264-2274.	1.1	10
27	A versatile snap chip for high-density sub-nanoliter chip-to-chip reagent transfer. <i>Scientific Reports</i> , 2015, 5, 11688.	3.3	8
28	Identification of a Thrombin-Binding Region in the Sixth Epidermal Growth Factor-like Repeat of Human Thrombomodulin. <i>Biochemistry</i> , 2000, 39, 10365-10372.	2.5	7
29	The Mini Colon Model: a benchtop multi-bioreactor system to investigate the gut microbiome. <i>Gut Microbes</i> , 2022, 14, .	9.8	7
30	Spatial Bias in Antibody Microarrays May Be an Underappreciated Source of Variability. <i>ACS Sensors</i> , 2021, 6, 1796-1806.	7.8	3
31	A novel assay for rapid HIV-1 protease detection using optical sensors and magnetic carriers. , 2012, , .		0
32	Design, Selection and Binding Mechanism of Bivalent Mini-proteins Targeting Human Thrombin. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 417-418.	1.6	0