

Abhay Andar

List of Publications by Year in descending order

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43
papers

3,293
citations

471477

17
h-index

265191

42
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all docs

44
docs citations

44
times ranked

5302
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and low-cost sampling for detection of airborne SARS-CoV-2 in dehumidifier condensate. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3029-3036.	3.3	16
2	Transdermal sensing: in-situ non-invasive techniques for monitoring of human biochemical status. <i>Current Opinion in Biotechnology</i> , 2021, 71, 198-205.	6.6	12
3	What do masks mask? A study on transdermal CO ₂ monitoring. <i>Medical Engineering and Physics</i> , 2021, 98, 50-56.	1.7	3
4	Real-time dissolved carbon dioxide monitoring II: Surface aeration intensification for efficient CO ₂ removal in shake flasks and mini-bioreactors leads to superior growth and recombinant protein yields. <i>Biotechnology and Bioengineering</i> , 2020, 117, 992-998.	3.3	14
5	Real-time dissolved carbon dioxide monitoring I: Application of a novel in situ sensor for CO ₂ monitoring and control. <i>Biotechnology and Bioengineering</i> , 2020, 117, 981-991.	3.3	12
6	A Cell-Free Protein Expression System Derived from Human Primary Peripheral Blood Mononuclear Cells. <i>ACS Synthetic Biology</i> , 2020, 9, 2188-2196.	3.8	2
7	Manufacturing biological medicines on demand: Safety and efficacy of granulocyte colony-stimulating factor in a mouse model of total body irradiation. <i>Biotechnology Progress</i> , 2020, 36, e2970.	2.6	6
8	Wood Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 11004-11012.	6.5	20
9	Fractal Carbon Islands on Plastic Substrates for Enhancement in Directional and Beaming Fluorescence Emission. <i>ACS Applied Nano Materials</i> , 2019, 2, 6103-6109.	5.0	5
10	Spacer and Cavity Engineering on Low-cost Plastic Substrates for 100-Fold Enhancements in Metal-Dielectric-Metal-Based Directional Fluorescence Emission. <i>Plasmonics</i> , 2019, 14, 731-736.	3.4	2
11	Low-cost customizable microscale toolkit for rapid screening and purification of therapeutic proteins. <i>Biotechnology and Bioengineering</i> , 2019, 116, 870-881.	3.3	10
12	Improving the recombinant human erythropoietin glycosylation using microsome supplementation in CHO cell-free system. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1253-1264.	3.3	17
13	Sensors for biomanufacturing process development: facilitating the shift from batch to continuous manufacturing. <i>Current Opinion in Chemical Engineering</i> , 2018, 22, 115-127.	7.8	22
14	Minimally invasive technique for measuring transdermal glucose with a fluorescent biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7249-7260.	3.7	16
15	Rapid recombinant protein expression in cell-free extracts from human blood. <i>Scientific Reports</i> , 2018, 8, 9569.	3.3	19
16	Point-of-care production of therapeutic proteins of good-manufacturing-practice quality. <i>Nature Biomedical Engineering</i> , 2018, 2, 675-686.	22.5	79
17	Microneedle-Assisted Skin Permeation by Nontoxic Bioengineerable Gas Vesicle Nanoparticles. <i>Molecular Pharmaceutics</i> , 2017, 14, 953-958.	4.6	18
18	Measuring transdermal glucose levels in neonates by passive diffusion: an in vitro porcine skin model. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3475-3482.	3.7	6

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19	Optimizing cell-free protein expression in CHO: Assessing small molecule mass transfer effects in various reactor configurations. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1478-1486.	3.3	14
20	Non-Invasive Optical Sensor Based Approaches for Monitoring Virus Culture to Minimize BSL3 Laboratory Entry. <i>Sensors</i> , 2015, 15, 14864-14870.	3.8	1
21	A unique noninvasive approach to monitoring dissolved O ₂ and CO ₂ in cell culture. <i>Biotechnology and Bioengineering</i> , 2015, 112, 104-110.	3.3	14
22	A Low-Cost Fluorescent Sensor for pCO ₂ Measurements. <i>Chemosensors</i> , 2014, 2, 108-120.	3.6	10
23	A completely noninvasive method of dissolved oxygen monitoring in disposable small-scale cell culture vessels based on diffusion through permeable vessel walls. <i>Biotechnology Progress</i> , 2014, 30, 172-177.	2.6	12
24	Portable system for the detection of micromolar concentrations of glucose. <i>Measurement Science and Technology</i> , 2014, 25, 025701.	2.6	18
25	Microfluidic Preparation of Liposomes to Determine Particle Size Influence on Cellular Uptake Mechanisms. <i>Pharmaceutical Research</i> , 2014, 31, 401-413.	3.5	124
26	Intradermal Delivery of <i>Shigella</i> IpaB and IpaD Type III Secretion Proteins: Kinetics of Cell Recruitment and Antigen Uptake, Mucosal and Systemic Immunity, and Protection across Serotypes. <i>Journal of Immunology</i> , 2014, 192, 1630-1640.	0.8	52
27	Passive Diffusion of Transdermal Glucose. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 291-298.	2.2	17
28	A novel approach toward noninvasive monitoring of transcutaneous CO ₂ . <i>Medical Engineering and Physics</i> , 2014, 36, 136-139.	1.7	9
29	Detection of Trace Glucose on the Surface of a Semipermeable Membrane Using a Fluorescently Labeled Glucose-Binding Protein: A Promising Approach to Noninvasive Glucose Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2013, 7, 4-12.	2.2	11
30	Microfluidic synthesis of PEGylated liposomes. , 2012, , .		0
31	Study on low-cost calibration-free pH sensing with disposable optical sensors. <i>Analytica Chimica Acta</i> , 2012, 734, 79-87.	5.4	16
32	Real-time monitoring of shake flask fermentation and off gas using triple disposable noninvasive optical sensors. <i>Biotechnology Progress</i> , 2012, 28, 872-877.	2.6	17
33	Polyelectrolyte multilayers generated in a microfluidic device with pH gradients direct adhesion and movement of cells. <i>Lab on A Chip</i> , 2011, 11, 3326.	6.0	38
34	On the Possibility of Real-time Monitoring of Glucose in Cell Culture by Microdialysis Using a Fluorescent Glucose Binding Protein Sensor. <i>Biotechnology Progress</i> , 2008, 24, 691-697.	2.6	19
35	Genomic expression of mesenchymal stem cells to altered nanoscale topographies. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1055-1065.	3.4	88
36	Comparing the Performance of the Optical Glucose Assay Based on Glucose Binding Protein with High-Performance Anion-Exchange Chromatography with Pulsed Electrochemical Detection: Efforts to Design a Low-Cost Point-of-Care Glucose Sensor. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 864-872.	2.2	15

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37	The control of human mesenchymal cell differentiation using nanoscale symmetry and disorder. <i>Nature Materials</i> , 2007, 6, 997-1003.	27.5	2,177
38	Validation of an optical sensor-based high-throughput bioreactor system for mammalian cell culture. <i>Journal of Biotechnology</i> , 2006, 122, 293-306.	3.8	97
39	Fluorescent Aromatic Platforms for Cell Patterning. <i>Langmuir</i> , 2006, 22, 5528-5532.	3.5	19
40	Low-cost noninvasive optical CO2 sensing system for fermentation and cell culture. <i>Biotechnology and Bioengineering</i> , 2005, 89, 329-334.	3.3	55
41	Dual-Labeled Glucose Binding Protein for Ratiometric Measurements of Glucose. <i>Analytical Chemistry</i> , 2004, 76, 1403-1410.	6.5	88
42	Genetically engineered binding proteins as biosensors for fermentation and cell culture. <i>Biotechnology and Bioengineering</i> , 2003, 84, 723-731.	3.3	33
43	High-stability non-invasive autoclavable naked optical CO2 sensor. <i>Biosensors and Bioelectronics</i> , 2003, 18, 857-865.	10.1	70