

David Clarke

List of Publications by Year in descending order

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51
papers

997
citations

516710

16
h-index

454955

30
g-index

51
all docs

51
docs citations

51
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell manipulation in ultrasonic standing wave fields. <i>Journal of Chemical Technology and Biotechnology</i> , 1989, 44, 43-62.	3.2	135
2	Development of an On-line Glucose Sensor for Fermentation Monitoring. <i>Biosensors</i> , 1987, 3, 45-56.	1.7	104
3	The Proton-Translocating Adenosine Triphosphatase of the Obligately Anaerobic Bacterium <i>Clostridium pasteurianum</i> . 1. ATP Phosphohydrolase Activity. <i>FEBS Journal</i> , 1979, 98, 597-612.	0.2	62
4	The development and application of biosensing devices for bioreactor monitoring and control. <i>Biosensors</i> , 1985, 1, 213-320.	1.7	61
5	Enhanced sedimentation of mammalian cells following acoustic aggregation. <i>Biotechnology and Bioengineering</i> , 1989, 34, 559-562.	3.3	55
6	ESCA investigation of low-temperature ammonia plasma-treated polyethylene substrate for immobilization of protein. <i>Biomaterials</i> , 1992, 13, 801-806.	11.4	46
7	On proton-coupled information transfer along the surface of biological membranes and the mode of action of certain colicins. <i>FEMS Microbiology Letters</i> , 1981, 11, 1-11.	1.8	45
8	A tetraphenylborate internal reference electrode for immiscible electrolyte solutions and ion selective electrodes. <i>Electrochimica Acta</i> , 1989, 34, 767-769.	5.2	45
9	On-line monitoring of cell mass in mammalian cell cultures by acoustic densitometry. <i>Biotechnology and Bioengineering</i> , 1989, 33, 1379-1384.	3.3	40
10	Purification of Two <i>Clostridium</i> Bacteriocins by Procedures Appropriate to Hydrophobic Proteins. <i>Antimicrobial Agents and Chemotherapy</i> , 1975, 7, 256-264.	3.2	31
11	Partial purification of a dicyclohexylcarbodi-imide-sensitive membrane adenosine triphosphatase complex from the obligately anaerobic bacterium <i>Clostridium Pasteurianum</i> . <i>Biochemical Journal</i> , 1976, 154, 725-729.	3.7	28
12	Butyricin 7423: a Bacteriocin Produced by <i>Clostridium butyricum</i> NCIB7423. <i>Journal of General Microbiology</i> , 1976, 95, 67-77.	2.3	27
13	Determination of reactor biomass by acoustic resonance densitometry. <i>Biotechnology and Bioengineering</i> , 1986, 28, 1241-1249.	3.3	25
14	The Proton-Translocating Adenosine Triphosphatase of the Obligately Anaerobic Bacterium <i>Clostridium pasteurianum</i> . 2. ATP Synthetase Activity. <i>FEBS Journal</i> , 1979, 98, 613-620.	0.2	20
15	On the Mode of Action of the Bacteriocin Butyricin 7423. Effects on Membrane Potential and Potassium-Ion Accumulation in <i>Clostridium pasteurianum</i> . <i>FEBS Journal</i> , 1982, 127, 105-116.	0.2	17
16	Evolution of vacuolar H ⁺ -ATPases: immunological relationships of the nucleotide-binding subunits. <i>Biochemistry and Cell Biology</i> , 1989, 67, 306-310.	2.0	17
17	Agglutination of <i>Legionella pneumophila</i> by antiserum is accelerated in an ultrasonic standing wave. <i>Journal of Immunological Methods</i> , 1989, 120, 201-205.	1.4	17
18	Determination of protein size in chromatography column eluants by on-line photon correlation spectroscopy. <i>Analytical Biochemistry</i> , 1988, 175, 492-499.	2.4	15

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19	Reduction of doxorubicin resistance in P-glycoprotein overexpressing cells by hybrid cell-penetrating and drug-binding peptide. <i>Journal of Drug Targeting</i> , 2010, 18, 477-487.	4.4	15
20	Catalytic Knockdown of miR-21 by Artificial Ribonuclease: Biological Performance in Tumor Model. <i>Frontiers in Pharmacology</i> , 2019, 10, 879.	3.5	15
21	Biosensors in process control. <i>Philosophical Transactions of the Royal Society of London Series B, Biological Sciences</i> , 1987, 316, 169-181.	2.3	13
22	Electroacoustic production of murine hybridomas. <i>Journal of Immunological Methods</i> , 1990, 129, 41-47.	1.4	13
23	Raster Image Correlation Spectroscopy As a Novel Tool for the Quantitative Assessment of Protein Diffusional Behaviour in Solution. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 2082-2093.	3.3	13
24	NMR detects molecular interactions of graphene with aromatic and aliphatic hydrocarbons in water. <i>2D Materials</i> , 2018, 5, 015003.	4.4	13
25	Action of Butyricin 7423 on <i>Clostridium pasteurianum</i> : Changes in Intracellular Adenosine Triphosphate Concentration. <i>Biochemical Society Transactions</i> , 1975, 3, 389-391.	3.4	11
26	Selective Dequenching by Photobleaching Increases Fluorescence Probe Visibility. <i>Journal of Fluorescence</i> , 2003, 13, 513-517.	2.5	11
27	Cloaking cytolytic peptides for liposome-based detection and potential drug delivery. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 73-81.	2.6	10
28	Ability of co-administered peptide liposome nanoparticles to exploit tumour acidity for drug delivery. <i>RSC Advances</i> , 2014, 4, 10779-10790.	3.6	9
29	Dispersal of pristine graphene for biological studies. <i>RSC Advances</i> , 2016, 6, 69551-69559.	3.6	8
30	Butyricin 7423 and the membrane H ⁺ -ATPase of <i>Clostridium pasteurianum</i> . <i>Archives of Microbiology</i> , 1982, 131, 81-86.	2.2	7
31	Monitoring the kinetics of CellTrace [®] , calcein red-orange AM intracellular accumulation with spatial intensity distribution analysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2914-2923.	2.4	7
32	Strict conformational demands of RNA cleavage in bulge-loops created by peptidyl-oligonucleotide conjugates. <i>Nucleic Acids Research</i> , 2020, 48, 10662-10679.	14.5	7
33	Reconstitution of a Functional Proton-Translocating Adenosine Triphosphatase from the Obligately Anaerobic Bacterium <i>Clostridium pasteurianum</i> . <i>Biochemical Society Transactions</i> , 1977, 5, 140-143.	3.4	6
34	Quantitative Assessment of P-Glycoprotein Expression and Function Using Confocal Image Analysis. <i>Microscopy and Microanalysis</i> , 2014, 20, 1329-1339.	0.4	6
35	Application of photon correlation spectroscopy as a technique for detecting culture contamination. <i>Biotechnology and Bioengineering</i> , 1991, 38, 929-940.	3.3	5
36	Sequence-Specific Detection of Unlabeled Nucleic Acid Biomarkers Using a ³¹ P- ³¹ P-3D Molecular Sensor. <i>Analytical Chemistry</i> , 2019, 91, 10016-10025.	6.5	5

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37	Nonepitopic antibody binding sequence: implications in screening and development of peptide vaccines. <i>Vaccine</i> , 1999, 18, 315-320.	3.8	4
38	Real-time evaluation of aggregation using confocal imaging and image analysis tools. <i>Analyst</i> , The, 2014, 139, 564-568.	3.5	4
39	“Bind, cleave and leave” multiple turnover catalysis of RNA cleavage by bulge-loop inducing supramolecular conjugates. <i>Nucleic Acids Research</i> , 2022, 50, 651-673.	14.5	4
40	Apparatus for the electrical characterisation of conductive fluids. <i>Biosensors</i> , 1989, 4, 87-108.	1.7	3
41	Influence of concentration on the particle size analysis of polymer latexes using diffusing-wave spectroscopy. <i>Colloid and Polymer Science</i> , 2005, 283, 1025-1032.	2.1	3
42	RNA knockdown by synthetic peptidyl-oligonucleotide ribonucleases: behavior of recognition and cleavage elements under physiological conditions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 2555-2574.	3.5	3
43	The membrane adenosine triphosphatase of <i>Clostridium pasteurianum</i> . <i>FEBS Letters</i> , 1979, 100, 52-56.	2.8	2
44	The mother-cell-membrane adenosine triphosphatase of sporulating <i>Clostridium pasteurianum</i> . <i>Biochemical Journal</i> , 1980, 186, 191-199.	3.7	2
45	Microbial content of aerosols produced from suspensions exposed to megahertz frequency ultrasound. <i>Ultrasonics</i> , 1990, 28, 415-421.	3.9	2
46	Temporal autocorrelation function for a diffusing-wave spectroscopy experiment with a point source and backscattering detection. <i>Applied Optics</i> , 2001, 40, 4204.	2.1	2
47	Bulge-Forming miRNases Cleave Oncogenic miRNAs at the Central Loop Region in a Sequence-Specific Manner. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6562.	4.1	2
48	The Generation of a Membrane Potential by a Fermentative Bacterium. <i>Biochemical Society Transactions</i> , 1979, 7, 1111-1112.	3.4	1
49	The Occurrence and Location of Squalene in <i>Clostridium pasteurianum</i> . <i>Journal of General Microbiology</i> , 1979, 111, 437-440.	2.3	1
50	Analysis of pH-induced population oscillations of <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> using photon correlation spectroscopy. <i>Biochemical Society Transactions</i> , 1991, 19, 513-514.	3.4	0
51	SAC 92. <i>Analytical Proceedings</i> , 1993, 30, 244-257.	0.4	0