

# Christopher P. Marquis

## List of Publications by Year in descending order

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85  
papers

3,715  
citations

136885

32  
h-index

133188

59  
g-index

87  
all docs

87  
docs citations

87  
times ranked

6831  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Cytotoxic Origin of Copper(II) Oxide Nanoparticles: Comparative Studies with Micron-Sized Particles, Leachate, and Metal Salts. <i>ACS Nano</i> , 2011, 5, 7214-7225.   | 7.3 | 309       |
| 2  | Macrophage inhibitory cytokine-1 (MIC-1/GDF15): a new marker of all-cause mortality. <i>Aging Cell</i> , 2010, 9, 1057-1064.  | 3.0 | 219       |
| 3  | The TGF- $\beta$ superfamily cytokine, MIC-1/GDF15: A pleiotropic cytokine with roles in inflammation, cancer and metabolism. <i>Growth Factors</i> , 2011, 29, 187-195.  | 0.5 | 214       |
| 4  | Nanoparticle-protein corona complexes govern the biological fates and functions of nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2060.  | 2.9 | 211       |
| 5  | Reversible Antimicrobial Photoswitching in Nanosilver. <i>Small</i> , 2009, 5, 341-344.   | 5.2 | 158       |
| 6  | TGF- $\beta$ Superfamily Cytokine MIC-1/GDF15 Is a Physiological Appetite and Body Weight Regulator. <i>PLoS ONE</i> , 2013, 8, e55174.   | 1.1 | 142       |
| 7  | Effects of Serum Adsorption on Cellular Uptake Profile and Consequent Impact of Titanium Dioxide Nanoparticles on Human Lung Cell Lines. <i>ACS Nano</i> , 2012, 6, 4083-4093.                                      | 7.3 | 134       |
| 8  | Organohalide Respiring Bacteria and Reductive Dehalogenases: Key Tools in Organohalide Bioremediation. <i>Frontiers in Microbiology</i> , 2016, 7, 249.   | 1.5 | 132       |
| 9  | Bactericidal effects of titanium dioxide-based photocatalysts. <i>Chemical Engineering Journal</i> , 2005, 113, 55-63.  | 6.6 | 123       |
| 10 | Assembly of Polyethylenimine-Based Magnetic Iron Oxide Vectors: Insights into Gene Delivery. <i>Langmuir</i> , 2010, 26, 7314-7326.   | 1.6 | 114       |
| 11 | Acid Degradable and Biocompatible Polymeric Nanoparticles for the Potential Codelivery of Therapeutic Agents. <i>Macromolecules</i> , 2011, 44, 8008-8019.  | 2.2 | 101       |
| 12 | Macrophage inhibitory cytokine-1 (MIC-1/GDF15) and mortality in end-stage renal disease. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 70-75.  | 0.4 | 96        |
| 13 | Polymersomes Prepared from Thermo-responsive Fluorescent Protein-Polymer Bioconjugates: Capture of and Report on Drug and Protein Payloads. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5317-5322. | 7.2 | 93        |
| 14 | Reductive Dehalogenases Come of Age in Biological Destruction of Organohalides. <i>Trends in Biotechnology</i> , 2015, 33, 595-610.   | 4.9 | 91        |
| 15 | The Anorectic Actions of the TGF- $\beta$ Cytokine MIC-1/GDF15 Require an Intact Brainstem Area Postrema and Nucleus of the Solitary Tract. <i>PLoS ONE</i> , 2014, 9, e100370.                                     | 1.1 | 91        |
| 16 | Induced Adaptation of <i>Bacillus sp.</i> to Antimicrobial Nanosilver. <i>Small</i> , 2013, 9, 3554-3560.   | 5.2 | 81        |
| 17 | The mouse antibody heavy chain repertoire is germline-focused and highly variable between inbred strains. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140236.      | 1.8 | 77        |
| 18 | Widespread and Indiscriminate Nanosilver Use: Genuine Potential for Microbial Resistance. <i>ACS Nano</i> , 2017, 11, 3438-3445.  | 7.3 | 77        |

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|----|--|-----|-----------|
| 19 | Polyethylenimine Based Magnetic Iron-Oxide Vector: The Effect of Vector Component Assembly on Cellular Entry Mechanism, Intracellular Localization, and Cellular Viability. <i>Biomacromolecules</i> , 2010, 11, 2521-2531.                                      | 2.6 | 73        |
| 20 | <i>Chromera velia</i> is Endosymbiotic in Larvae of the Reef Corals <i>Acropora digitifera</i> and <i>A. tenuis</i> . <i>Protist</i> , 2013, 164, 237-244.   | 0.6 | 68        |
| 21 | Serum Levels of Human MIC-1/GDF15 Vary in a Diurnal Pattern, Do Not Display a Profile Suggestive of a Satiety Factor and Are Related to BMI. <i>PLoS ONE</i> , 2015, 10, e0133362.   | 1.1 | 66        |
| 22 | Treatment with the TGF- $\beta$ superfamily cytokine MIC-1/GDF15 reduces the adiposity and corrects the metabolic dysfunction of mice with diet-induced obesity. <i>International Journal of Obesity</i> , 2018, 42, 561-571.                                    | 1.6 | 64        |
| 23 | Submicron and nano formulations of titanium dioxide and zinc oxide stimulate unique cellular toxicological responses in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Hazardous Materials</i> , 2013, 260, 984-992.                       | 6.5 | 56        |
| 24 | Cereulide, the emetic toxin of <i>Bacillus cereus</i> , is putatively a product of nonribosomal peptide synthesis. <i>Journal of Applied Microbiology</i> , 2004, 97, 992-1000.  | 1.4 | 50        |
| 25 | Enzymatic conversion of coconut oil for biodiesel production. <i>Fuel Processing Technology</i> , 2013, 106, 721-726.  | 3.7 | 49        |
| 26 | Nanosilver Targets the Bacterial Cell Envelope: The Link with Generation of Reactive Oxygen Radicals. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5557-5568.   | 4.0 | 48        |
| 27 | Effect of TiO <sub>2</sub> nanoparticle surface functionalization on protein adsorption, cellular uptake and cytotoxicity: the attachment of PEG comb polymers using catalytic chain transfer and thiol-ene chemistry. <i>Polymer Chemistry</i> , 2012, 3, 2743. | 1.9 | 43        |
| 28 | Biological impacts of TiO <sub>2</sub> on human lung cell lines A549 and H1299: particle size distribution effects. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3801-3813.   | 0.8 | 42        |
| 29 | Bi-functional gold-coated magnetite composites with improved biocompatibility. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 536-545.   | 5.0 | 36        |
| 30 | Genomic, transcriptomic and proteomic analyses of <i>Dehalobacter</i> UNSWDHB in response to chloroform. <i>Environmental Microbiology Reports</i> , 2016, 8, 814-824.   | 1.0 | 35        |
| 31 | Fundamentals and electrochemical applications of [Ni-Fe]-uptake hydrogenases. <i>RSC Advances</i> , 2013, 3, 8142.   | 1.7 | 34        |
| 32 | An evaluation of the antimicrobial properties of the eggs of 11 species of scleractinian corals. <i>Coral Reefs</i> , 2005, 24, 248-253.   | 0.9 | 33        |
| 33 | Dependency of engine combustion on blending ratio variations of lipase-catalysed coconut oil biodiesel and petroleum diesel. <i>Fuel</i> , 2016, 169, 146-157.   | 3.4 | 33        |
| 34 | A Fluorescence-Based High-Throughput Screen to Identify Small Compound Inhibitors of the Genotype 3a Hepatitis C Virus RNA Polymerase. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1027-1034.   | 2.6 | 28        |
| 35 | Perfluorodecalin nanocapsule as an oxygen carrier and contrast agent for ultrasound imaging. <i>RSC Advances</i> , 2014, 4, 13052.   | 1.7 | 23        |
| 36 | Nanosilver and the microbiological activity of the particulate solids versus the leached soluble silver. <i>Nanotoxicology</i> , 2018, 12, 263-273.  | 1.6 | 23        |

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|----|---|-----|-----------|
| 37 | Purification of recombinant human growth hormone from CHO cell culture supernatant by Gradiflow preparative electrophoresis technology. <i>Protein Expression and Purification</i> , 2003, 32, 126-134.   | 0.6 | 22        |
| 38 | An improved process for the production of highly purified recombinant thaumatin tagged-variants. <i>Food Chemistry</i> , 2017, 237, 825-832.  | 4.2 | 22        |
| 39 | Development of Super-CHO protein-free medium based on a statistical design. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 431-441.  | 1.6 | 19        |
| 40 | An analysis of the changes in soluble hydrogenase and global gene expression in <i>Cupriavidus necator</i> ( <i>Ralstonia eutropha</i> ) H16 grown in heterotrophic diauxic batch culture. <i>Microbial Cell Factories</i> , 2015, 14, 42.      | 1.9 | 19        |
| 41 | T4 bacteriophage conjugated magnetic particles for <i>E. coli</i> capturing: Influence of bacteriophage loading, temperature and tryptone. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 47-57.                                    | 2.5 | 18        |
| 42 | An analysis of some batch and continuous kinetic data of specific monoclonal antibody production from hybridomas. <i>Cytotechnology</i> , 1991, 6, 189-195.   | 0.7 | 17        |
| 43 | A Comparative Analysis on Engine Performance of a Conventional Diesel Fuel and 10% Biodiesel Blends Produced from Coconut Oils. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 8, 597-609.                                       | 0.2 | 17        |
| 44 | A bacterial chloroform reductive dehalogenase: purification and biochemical characterization. <i>Microbial Biotechnology</i> , 2017, 10, 1640-1648.   | 2.0 | 17        |
| 45 | pH control options for hybridoma cultures. <i>Biotechnology Letters</i> , 1989, 3, 73-78.   | 0.5 | 16        |
| 46 | Short Communication: Variable palatability of coral eggs to a planktivorous fish. <i>Marine and Freshwater Research</i> , 2001, 52, 865.  | 0.7 | 16        |
| 47 | Cloning and expression of human V-genes derived from phage display libraries as fully assembled human anti-TNF $\alpha$ monoclonal antibodies. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1997, 3, 31-43. | 2.4 | 15        |
| 48 | Agitation and aeration effects in suspension mammalian cell cultures. <i>Cytotechnology</i> , 1989, 2, 163-170.   | 0.7 | 14        |
| 49 | Growth differentiation factor-15 slows the growth of murine prostate cancer by stimulating tumor immunity. <i>PLoS ONE</i> , 2020, 15, e0233846.  | 1.1 | 14        |
| 50 | Protein Release from Biodegradable PolyHPMA $\alpha$ -Lysozyme Conjugates Resulting in Bioactivity Enhancement. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1398-1404.   | 1.7 | 13        |
| 51 | Zinc Oxide Nanoparticles Induce Cell Filamentation in <i>Escherichia coli</i> . <i>Particle and Particle Systems Characterization</i> , 2013, 30, 375-380.  | 1.2 | 13        |
| 52 | One-Pot Synthesis of High Molecular Weight Synthetic Heteroprotein Dimers Driven by Charge Complementarity Electrostatic Interactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 9594-9602.   | 1.7 | 13        |
| 53 | Adsorption of T4 bacteriophages on planar indium tin oxide surface via controlled surface tailoring. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 192-199.  | 5.0 | 12        |
| 54 | Heterologous Production and Purification of a Functional Chloroform Reductive Dehalogenase. <i>ACS Chemical Biology</i> , 2018, 13, 548-552.  | 1.6 | 12        |

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|----|---|-----|-----------|
| 55 | Purification and Characterization of Ara h1 and Ara h3 from Four Peanut Market Types Revealed Higher Order Oligomeric Structures. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10352-10358.        | 2.4 | 11        |
| 56 | Process development for a recombinant Chinese hamster ovary (CHO) cell line utilizing a metal induced and amplified metallothionein expression system. <i>Biotechnology and Bioengineering</i> , 2004, 88, 437-450. | 1.7 | 10        |
| 57 | Macrophage inhibitory cytokine-1/growth differentiation factor-15 as a predictor of colonic neoplasia. <i>Alimentary Pharmacology and Therapeutics</i> , 2017, 46, 347-354.   | 1.9 | 10        |
| 58 | Production and purification of a soluble hydrogenase from <i>Ralstonia eutropha</i> H16 for potential hydrogen fuel cell applications. <i>MethodsX</i> , 2016, 3, 242-250.  | 0.7 | 9         |
| 59 | A two-step microengineered system for high-density cell retention from bioreactors. <i>Separation and Purification Technology</i> , 2021, 254, 117610.  | 3.9 | 9         |
| 60 | A comparison of different culture methods for hybridoma propagation and monoclonal antibody production. <i>Cytotechnology</i> , 1990, 4, 69-76.   | 0.7 | 8         |
| 61 | Development of a sensitive sandwich ELISA specific to 2S albumin (Ana o 3) as a stable protein marker for cashew nut residue detection in pre-packaged food products. <i>Food Control</i> , 2019, 96, 432-440.      | 2.8 | 8         |
| 62 | Particle movement and fluid behavior visualization using an optically transparent 3D-printed micro-hydrocyclone. <i>Biomicrofluidics</i> , 2020, 14, 064106.  | 1.2 | 8         |
| 63 | Construction and use of a <i>Cupriavidus necator</i> H16 soluble hydrogenase promoter (P <sub>SH</sub> ) fusion to GFP (green fluorescent protein). <i>PeerJ</i> , 2016, 4, e2269.                                  | 0.9 | 8         |
| 64 | Title is missing!. <i>Biotechnology Letters</i> , 1998, 12, 485-489.  | 0.5 | 7         |
| 65 | Carbohydrate and amino acid metabolism during batch culture of a human lymphoblastoid cell line, BTSN6. <i>Cytotechnology</i> , 1996, 21, 121-132.  | 0.7 | 6         |
| 66 | Biosynthesis of protein products by animal cells. Are growth and non-growth associated concepts valid or useful?. <i>Cytotechnology</i> , 1996, 21, 133-148.  | 0.7 | 6         |
| 67 | Evidence of heterogeneity in the antibody response against the platelet antigen 3a; recognition of an 11-mer peptide carrying the HPA-3a polymorphic determinant. <i>Vox Sanguinis</i> , 2009, 96, 252-255.         | 0.7 | 6         |
| 68 | Antimicrobial activity of T4 bacteriophage conjugated indium tin oxide surfaces. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 227-233.  | 5.0 | 6         |
| 69 | Amino acid metabolism during batch culture of a murine hybridoma, AFP-27. <i>Cytotechnology</i> , 1996, 21, 111-120.  | 0.7 | 4         |
| 70 | In vitro coronal protein signatures and biological impact of silver nanoparticles synthesized with different natural polymers as capping agents. <i>Nanoscale Advances</i> , 2021, 3, 4424-4439.                    | 2.2 | 4         |
| 71 | Scanning Electrochemical Microscopy of Cytochrome c Peroxidase through the Orientation-Controlled Immobilisation of Cytochrome c. <i>ChemElectroChem</i> , 2016, 3, 1150-1156.                                      | 1.7 | 3         |
| 72 | Fed-Batch Propagation of Mouse Hybridoma and Human Lymphoblastoid Cell Lines (LCLs). , 1993, , 425-431.   |     | 3         |

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|----|--|-----|-----------|
| 73 | Evaluation of the batch kinetics of the amino acid metabolism of a mouse hybridoma and human lymphoblastoid cell line using a pre-column FDNDEA derivitisation, HPLC technique. <i>Biotechnology Letters</i> , 1993, 7, 799-804. | 0.5 | 2         |
| 74 | Novel Nematode-Killing Protein-1 (Nkp-1) from a Marine Epiphytic Bacterium <i>Pseudoalteromonas tunicata</i> . <i>Biomedicines</i> , 2021, 9, 1586.  | 1.4 | 2         |
| 75 | A Tunable Tumor Microenvironment through Recombinant Bacterial Collagen-Hyaluronic Acid Hydrogels. <i>ACS Applied Bio Materials</i> , 0, , .   | 2.3 | 2         |
| 76 | Antimicrobial Resistance: Induced Adaptation of <i>Bacillus</i> sp. to Antimicrobial Nanosilver (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622   | 5.2 | 1         |
| 77 | Design, Synthesis, and Evaluation of N- and C-Terminal Protein Bioconjugates as G Protein-Coupled Receptor Agonists. <i>Bioconjugate Chemistry</i> , 2018, 29, 403-409.  | 1.8 | 1         |
| 78 | Yield Improvements Utilising Fed-Batch Cultivation and Optimisation Strategies. , 1998, , 183-189.   |     | 1         |
| 79 | Nanoparticles: Zinc Oxide Nanoparticles Induce Cell Filamentation in <i>Escherichia coli</i> (Part.) Tj ETQq1 1 0.784314 rgBT /Overlock 1.2  | 1.2 | 0         |
| 80 | Production and characterisation of recombinant human chaperonin 10 for treatment of inflammatory disease. <i>Process Biochemistry</i> , 2015, 50, 1669-1679.   | 1.8 | 0         |
| 81 | Patterns of the specific productivity of the murine hybridoma, AFP-27, in batch culture. , 1995, , 787-791.  |     | 0         |
| 82 | Title is missing!. , 2020, 15, e0233846.   |     | 0         |
| 83 | Title is missing!. , 2020, 15, e0233846.   |     | 0         |
| 84 | Title is missing!. , 2020, 15, e0233846.   |     | 0         |
| 85 | Title is missing!. , 2020, 15, e0233846.   |     | 0         |