

Zivko L Nikolov

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,742
citations

136950

32
h-index

149698

56
g-index

80
all docs

80
docs citations

80
times ranked

2606
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Title is missing!. Molecular Breeding, 1997, 3, 291-306. | 2.1 | 307 |
| 2 | Production of recombinant proteins in transgenic plants: Practical considerations. , 1997, 56, 473-484. | | 297 |
| 3 | Production of human monoclonal antibody in eggs of chimeric chickens. Nature Biotechnology, 2005, 23, 1159-1169. | 17.5 | 204 |
| 4 | Recovery and purification of plant-made recombinant proteins. Biotechnology Advances, 2012, 30, 419-433. | 11.7 | 167 |
| 5 | Extraction and fractionation of microalgae-based protein products. Algal Research, 2018, 36, 175-192. | 4.6 | 164 |
| 6 | Considerations for the recovery of recombinant proteins from plants. Biotechnology Progress, 2004, 20, 1001-1014. | 2.6 | 152 |
| 7 | Title is missing!. Molecular Breeding, 1998, 4, 301-312. | 2.1 | 124 |
| 8 | Process and Economic Evaluation of the Extraction and Purification of Recombinant Î²-Glucuronidase from Transgenic Corn. Biotechnology Progress, 1998, 14, 607-614. | 2.6 | 124 |
| 9 | Production and Purification of Two Recombinant Proteins from Transgenic Corn. Biotechnology Progress, 1998, 14, 149-155. | 2.6 | 122 |
| 10 | Supercritical fluid extraction of black pepper (Piper nigrun L.) essential oil. Journal of Supercritical Fluids, 1999, 14, 235-245. | 3.2 | 118 |
| 11 | Process development and economic evaluation of recombinant human lactoferrin expressed in rice grain. Transgenic Research, 2005, 14, 237-249. | 2.4 | 103 |
| 12 | Effect of compounding and starch modification on properties of starch-filled low-density polyethylene. Industrial & Engineering Chemistry Research, 1991, 30, 1841-1846. | 3.7 | 97 |
| 13 | Solubility of fatty acids in supercritical carbon dioxide. JAOCS, Journal of the American Oil Chemists' Society, 1992, 69, 1069-1076. | 1.9 | 91 |
| 14 | Recombinant aprotinin produced in transgenic corn seed: Extraction and purification studies. Biotechnology and Bioengineering, 2002, 80, 268-276. | 3.3 | 75 |
| 15 | Subsite mapping ofAspergillus niger glucoamylases I and II with malto- and isomaltooligosaccharides. Biotechnology and Bioengineering, 1989, 34, 681-688. | 3.3 | 74 |
| 16 | Downstream processing of recombinant proteins from transgenic feedstock. Current Opinion in Biotechnology, 2004, 15, 479-486. | 6.6 | 74 |
| 17 | Harvesting Nannochloris oculata by inorganic electrolyte flocculation: Effect of initial cell density, ionic strength, coagulant dosage, and media pH. Bioresource Technology, 2012, 118, 418-424. | 9.6 | 73 |
| 18 | Expression of the sweet protein brazzein in maize for production of a new commercial sweetener. Plant Biotechnology Journal, 2004, 3, 103-114. | 8.3 | 72 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Molecular Farming of Industrial Proteins from Transgenic Maize. <i>Advances in Experimental Medicine and Biology</i> , 1999, 464, 127-147. | 1.6 | 72 |
| 20 | Processing of transgenic corn seed and its effect on the recovery of recombinant β -glucuronidase. , 1998, 60, 44-52. | | 65 |
| 21 | Kinetics, equilibria, and modeling of the formation of oligosaccharides from D-glucose with <i>Aspergillus niger</i> glucoamylases I and II. <i>Biotechnology and Bioengineering</i> , 1989, 34, 694-704. | 3.3 | 64 |
| 22 | Degradation of Degradable Starch-Polyethylene Plastics in a Compost Environment. <i>Applied and Environmental Microbiology</i> , 1993, 59, 1155-1161. | 3.1 | 64 |
| 23 | Effect of algogenic organic matter (AOM) and sodium chloride on <i>Nannochloropsis salina</i> flocculation efficiency. <i>Bioresource Technology</i> , 2013, 143, 231-237. | 9.6 | 62 |
| 24 | Retention of carbohydrates on silica and amine-bonded silica stationary phases: application of the hydration model. <i>Journal of Chromatography A</i> , 1985, 325, 287-293. | 3.7 | 61 |
| 25 | Process for selective extraction of pigments and functional proteins from <i>Chlorella vulgaris</i> . <i>Algal Research</i> , 2018, 35, 185-193. | 4.6 | 61 |
| 26 | Evaluation of monoclonal antibody and phenolic extraction from transgenic <i>Lemna</i> for purification process development. <i>Biotechnology and Bioengineering</i> , 2009, 104, 562-571. | 3.3 | 57 |
| 27 | Activity and thermal stability of genetically truncated forms of <i>Aspergillus</i> glucoamylase. <i>Gene</i> , 1990, 91, 131-134. | 2.2 | 53 |
| 28 | Review of the harvesting and extraction program within the National Alliance for Advanced Biofuels and Bioproducts. <i>Algal Research</i> , 2018, 33, 470-485. | 4.6 | 50 |
| 29 | Characterization of glucoamylase adsorption to raw starch. <i>Enzyme and Microbial Technology</i> , 1991, 13, 982-990. | 3.2 | 44 |
| 30 | Recovery and purification of lactic acid from fermentation broth by adsorption. <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 471-480. | 2.9 | 40 |
| 31 | Recovery of lactic acid by sorption. <i>Applied Biochemistry and Biotechnology</i> , 1994, 45-46, 131-144. | 2.9 | 39 |
| 32 | Isothermal capillary column gas chromatography of trimethylsilyl disaccharides. <i>Journal of Chromatography A</i> , 1983, 254, 157-162. | 3.7 | 36 |
| 33 | Accelerated degradation studies of starch-filled polyethylene films. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2332-2339. | 3.7 | 33 |
| 34 | Domain E of <i>Bacillus macerans</i> cyclodextrin glucanotransferase: An independent starch-binding domain. <i>Biotechnology and Bioengineering</i> , 1995, 47, 575-584. | 3.3 | 33 |
| 35 | Off-flavor removal from soy-protein isolate by using liquid and supercritical carbon dioxide. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 1107-1115. | 1.9 | 32 |
| 36 | Factors Influencing Recombinant Human Lysozyme Extraction and Cation Exchange Adsorption. <i>Biotechnology Progress</i> , 2006, 22, 745-752. | 2.6 | 30 |

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|----|---|-----|-----------|
| 37 | Deletion analysis of the starch-binding domain of <i>Aspergillus glucoamylase</i> . <i>Protein Engineering, Design and Selection</i> , 1995, 8, 1049-1055. | 2.1 | 27 |
| 38 | Effects of mutations in the starch-binding domain of <i>Bacillus macerans</i> cyclodextrin glycosyltransferase. <i>Journal of Biotechnology</i> , 1998, 65, 191-202. | 3.8 | 26 |
| 39 | Improved adsorption to starch of a β -galactosidase fusion protein containing the starch-binding domain from <i>Aspergillus glucoamylase</i> . <i>Biotechnology Progress</i> , 1991, 7, 225-229. | 2.6 | 23 |
| 40 | Phenolics removal from transgenic <i>Lemna minor</i> extracts expressing mAb and impact on mAb production cost. <i>Biotechnology Progress</i> , 2011, 27, 410-418. | 2.6 | 20 |
| 41 | Effect of Processing on the Recovery of Recombinant β -Glucuronidase (rGUS) from Transgenic Canola. <i>Biotechnology Progress</i> , 2001, 17, 168-174. | 2.6 | 19 |
| 42 | A Scalable System for Generation of Mesenchymal Stem Cells Derived from Induced Pluripotent Cells Employing Bioreactors and Degradable Microcarriers. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1650-1665. | 3.3 | 19 |
| 43 | Production of Recombinant Proteins from Transgenic Crops. , 2002, , 159-174. | | 16 |
| 44 | Characterization and Application of Porcine Liver Aldehyde Oxidase in the Off-Flavor Reduction of Soy Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 1997, 45, 2488-2494. | 5.2 | 15 |
| 45 | Recovery of bovine lysozyme from transgenic sugarcane stalks: extraction, membrane filtration, and purification. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1407-1416. | 3.4 | 15 |
| 46 | Characterization of a β -galactosidase fusion protein containing the starch-binding domain of <i>Aspergillus glucoamylase</i> . <i>Enzyme and Microbial Technology</i> , 1994, 16, 18-23. | 3.2 | 14 |
| 47 | Functional starch-binding domain of <i>Aspergillus glucoamylase I</i> in <i>Escherichia coli</i> . <i>Gene</i> , 1993, 127, 193-197. | 2.2 | 13 |
| 48 | Aqueous Extraction of β -Glucuronidase from Transgenic Canola: Kinetics and Microstructure. <i>Biotechnology Progress</i> , 2002, 18, 1301-1305. | 2.6 | 13 |
| 49 | Processing of permeabilized <i>Chlorella vulgaris</i> biomass into lutein and protein-rich products. <i>Journal of Applied Phycology</i> , 2020, 32, 1697-1707. | 2.8 | 13 |
| 50 | Separation Options for Phosphorylated Osteopontin from Transgenic Microalgae <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 585. | 4.1 | 12 |
| 51 | Process development of enzymatically-generated algal protein hydrolysates for specialty food applications. <i>Algal Research</i> , 2021, 55, 102248. | 4.6 | 12 |
| 52 | Unprecedented enhancement of recombinant protein production in sugarcane culms using a combinatorial promoter stacking system. <i>Scientific Reports</i> , 2020, 10, 13713. | 3.3 | 11 |
| 53 | Purification of recombinant aprotinin produced in transgenic corn seed: separation from CTI utilizing ion-exchange chromatography. <i>Brazilian Journal of Chemical Engineering</i> , 2005, 22, 323-330. | 1.3 | 10 |
| 54 | Evaluation of alternatives for human lysozyme purification from transgenic rice: Impact of phytic acid and buffer. <i>Biotechnology Progress</i> , 2010, 26, 1303-1311. | 2.6 | 10 |

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|----|---|-----|-----------|
| 55 | Process evaluations and economic analyses of recombinant human lysozyme and hen egg white lysozyme purifications. <i>Biotechnology Progress</i> , 2011, 27, 733-743. | 2.6 | 10 |
| 56 | Enhanced Expression Levels of Cellulase Enzymes Using Multiple Transcription Units. <i>Bioenergy Research</i> , 2013, 6, 699-710. | 3.9 | 10 |
| 57 | Light-Induced Production of An Antibody Fragment and Malaria Vaccine Antigen from <i>Chlamydomonas reinhardtii</i> . <i>Processes</i> , 2014, 2, 625-638. | 2.8 | 10 |
| 58 | Purification and Characterization of Recombinant Cel7A from Maize Seed. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2864-2874. | 2.9 | 9 |
| 59 | Downstream Processing of Transgenic Plant Systems: Protein Recovery and Purification Strategies. , 2012, , 217-257. | | 8 |
| 60 | Impact of Dry-milled Germ Processing on Aqueous Protein and Oil Extraction. <i>Food and Bioprocess Technology</i> , 2016, 9, 612-620. | 4.7 | 7 |
| 61 | Recovery and Purification of Lactic Acid from Fermentation Broth by Adsorption. , 1996, , 471-480. | | 6 |
| 62 | Binding behavior of spike protein and receptor binding domain of the SARS-CoV-2 virus at different environmental conditions. <i>Scientific Reports</i> , 2022, 12, 789. | 3.3 | 5 |
| 63 | A Glutathione S-Transferase Fusion Protein with the Starch-Binding Domain of <i>Aspergillus Glucoamylase</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 160-167. | 3.8 | 4 |
| 64 | Evaluation of pretreatment methods for primary recovery and capture of an antibody fragment (\pm CD22scFv) from <i>Chlamydomonas reinhardtii</i> lysates. <i>Algal Research</i> , 2015, 12, 455-462. | 4.6 | 3 |
| 65 | Capture chromatography with mixed-mode resins: A case study with recombinant human thioredoxin from <i>Escherichia coli</i> . <i>Journal of Chromatography A</i> , 2020, 1625, 461327. | 3.7 | 3 |
| 66 | Exploring the separation power of mixed-modal resins for purification of recombinant osteopontin from clarified <i>Escherichia coli</i> lysates. <i>Biotechnology Progress</i> , 2019, 35, e2722. | 2.6 | 2 |
| 67 | Selective extraction of carotenoids and proteins from <i>Chlorella vulgaris</i> . , 2017, , . | | 1 |
| 68 | Effect of Rice Extract Impurities on Cation Exchange Adsorption of Lysozyme. , 2006, , . | | 0 |
| 69 | Evaluation of Processing Options for Transgenic Sugarcane Tissue Expressing Bovine Lysozyme. , 2009, , . | | 0 |
| 70 | Bioseparation: Proteins. , 2010, , 196-200. | | 0 |
| 71 | Removal of Phenolic Compounds by Adsorption on Polymeric Resins before Protein Purification. , 2010, , . | | 0 |
| 72 | Commercial Opportunities and Challenges for Protein Products from Corn. , 2010, , . | | 0 |

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| 73 | Data on using single- and mixed-mode resins for capture chromatography of recombinant human thioredoxin from Escherichia coli. Data in Brief, 2020, 33, 106500. | 1.0 | 0 |
| 74 | Effect of Phytic Acid and Buffer Ions on Recombinant Human Lysozyme Purification. , 2009, , . | | 0 |