

Somen Nandi

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,352
citations

393982

19
h-index

377514

34
g-index

60
all docs

60
docs citations

60
times ranked

1155
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | SARS-CoV-2 spike binding to ACE2 is stronger and longer ranged due to glycan interaction. <i>Biophysical Journal</i> , 2022, 121, 79-90. | 0.2 | 23 |
| 2 | Functionalizing silica sol-gel with entrapped plant virus-based immunosorbent nanoparticles. <i>Journal of Nanobiotechnology</i> , 2022, 20, 105. | 4.2 | 2 |
| 3 | Affinity Sedimentation and Magnetic Separation With Plant-Made Immunosorbent Nanoparticles for Therapeutic Protein Purification. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 865481. | 2.0 | 1 |
| 4 | Technoeconomic Modeling and Simulation for Plant-Based Manufacturing of Recombinant Proteins. <i>Methods in Molecular Biology</i> , 2022, , 159-189. | 0.4 | 3 |
| 5 | Space bioprocess engineering on the horizon. , 2022, 1, . | | 11 |
| 6 | Analysis of Variability of Functionals of Recombinant Protein Production Trajectories Based on Limited Data. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7628. | 1.8 | 0 |
| 7 | Production of recombinant butyrylcholinesterase from transgenic rice cell suspension cultures in a pilot-scale bioreactor. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1431-1443. | 1.7 | 9 |
| 8 | Alpha-1 antitrypsin deficiency and recombinant protein sources with focus on plant sources: Updates, challenges and perspectives. <i>Free Radical Biology and Medicine</i> , 2021, 163, 10-30. | 1.3 | 8 |
| 9 | Molecular pharming to support human life on the moon, mars, and beyond. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 849-864. | 5.1 | 25 |
| 10 | Process Simulation and Techno-Economic Analysis of Large-Scale Bioproduction of Sweet Protein Thaumatin II. <i>Foods</i> , 2021, 10, 838. | 1.9 | 15 |
| 11 | Contributions of the international plant science community to the fight against infectious diseases in humans-part 2: Affordable drugs in edible plants for endemic and re-emerging diseases. <i>Plant Biotechnology Journal</i> , 2021, 19, 1921-1936. | 4.1 | 31 |
| 12 | Contributions of the international plant science community to the fight against human infectious diseases - part 1: epidemic and pandemic diseases. <i>Plant Biotechnology Journal</i> , 2021, 19, 1901-1920. | 4.1 | 44 |
| 13 | Towards a Biomanufactory on Mars. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, . | 1.1 | 30 |
| 14 | Introducing uncertainty quantification to techno-economic models of manufacturing field-grown plant-made products. <i>Food and Bioprocess Processing</i> , 2021, 128, 153-165. | 1.8 | 3 |
| 15 | Immobilization of transgenic plant cells towards bioprinting for production of a recombinant biodefense agent. <i>Biotechnology Journal</i> , 2021, 16, e2100133. | 1.8 | 4 |
| 16 | Techno-economic process modelling and Monte Carlo simulation data of uncertainty quantification in field-grown plant-based manufacturing. <i>Data in Brief</i> , 2021, 38, 107317. | 0.5 | 3 |
| 17 | Evaluating the Cost of Pharmaceutical Purification for a Long-Duration Space Exploration Medical Foundry. <i>Frontiers in Microbiology</i> , 2021, 12, 700863. | 1.5 | 9 |
| 18 | Techno-economic analysis of a plant-based platform for manufacturing antimicrobial proteins for food safety. <i>Biotechnology Progress</i> , 2020, 36, e2896. | 1.3 | 32 |

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|----|--|-----|-----------|
| 19 | Simplified bioreactor processes for recombinant butyrylcholinesterase production in transgenic rice cell suspension cultures. <i>Biochemical Engineering Journal</i> , 2020, 163, 107751. | 1.8 | 9 |
| 20 | The Emergency Response Capacity of Plant-Based Biopharmaceutical Manufacturing-What It Is and What It Could Be. <i>Frontiers in Plant Science</i> , 2020, 11, 594019. | 1.7 | 48 |
| 21 | Development and simulation of fully glycosylated molecular models of ACE2-Fc fusion proteins and their interaction with the SARS-CoV-2 spike protein binding domain. <i>PLoS ONE</i> , 2020, 15, e0237295. | 1.1 | 36 |
| 22 | A method to simplify bioreactor processing for recombinant protein production in rice cell suspension cultures. <i>MethodsX</i> , 2020, 7, 101139. | 0.7 | 2 |
| 23 | Effects of Kifunensine on Production and N-Glycosylation Modification of Butyrylcholinesterase in a Transgenic Rice Cell Culture Bioreactor. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6896. | 1.8 | 9 |
| 24 | Technoeconomic analysis of semicontinuous bioreactor production of biopharmaceuticals in transgenic rice cell suspension cultures. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3053-3065. | 1.7 | 22 |
| 25 | Effects of N-Glycosylation on the Structure, Function, and Stability of a Plant-Made Fc-Fusion Anthrax Decoy Protein. <i>Frontiers in Plant Science</i> , 2019, 10, 768. | 1.7 | 29 |
| 26 | In Vivo Glycan Engineering via the Mannosidase I Inhibitor (Kifunensine) Improves Efficacy of Rituximab Manufactured in <i>Nicotiana benthamiana</i> Plants. <i>International Journal of Molecular Sciences</i> , 2019, 20, 194. | 1.8 | 27 |
| 27 | Purification and site-specific N-glycosylation analysis of human recombinant butyrylcholinesterase from <i>Nicotiana benthamiana</i> . <i>Biochemical Engineering Journal</i> , 2019, 142, 58-67. | 1.8 | 10 |
| 28 | Purification, characterization, and N-glycosylation of recombinant butyrylcholinesterase from transgenic rice cell suspension cultures. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1301-1310. | 1.7 | 16 |
| 29 | Transient Recombinant Protein Production in Glycoengineered <i>Nicotiana benthamiana</i> Cell Suspension Culture. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1205. | 1.8 | 32 |
| 30 | Glycoform Modification of Secreted Recombinant Glycoproteins through Kifunensine Addition during Transient Vacuum Agroinfiltration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 890. | 1.8 | 9 |
| 31 | Technoeconomic Modeling of Plant-Based Griffithsin Manufacturing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 102. | 2.0 | 46 |
| 32 | Expression, Purification, and Biophysical Characterization of a Secreted Anthrax Decoy Fusion Protein in <i>Nicotiana benthamiana</i> . <i>International Journal of Molecular Sciences</i> , 2017, 18, 89. | 1.8 | 9 |
| 33 | Semicontinuous Bioreactor Production of Recombinant Butyrylcholinesterase in Transgenic Rice Cell Suspension Cultures. <i>Frontiers in Plant Science</i> , 2016, 7, 412. | 1.7 | 42 |
| 34 | Transient Expression of Tetrameric Recombinant Human Butyrylcholinesterase in <i>Nicotiana benthamiana</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 743. | 1.7 | 33 |
| 35 | Techno-economic analysis of a transient plant-based platform for monoclonal antibody production. <i>MABs</i> , 2016, 8, 1456-1466. | 2.6 | 138 |
| 36 | Resource integration in smallholder farms for sustainable livelihoods in developing countries. <i>Cogent Food and Agriculture</i> , 2016, 2, . | 0.6 | 3 |

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|----|--|-----|-----------|
| 37 | Computing for rural empowerment: enabled by last-mile telecommunications. , 2016, 54, 102-109. | | 35 |
| 38 | Expression, purification, and characterization of recombinant human transferrin from rice (<i>Oryza</i>) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 | 0.6 | 39 |
| 39 | Process development and economic evaluation of recombinant human lactoferrin expressed in rice grain. Transgenic Research, 2005, 14, 237-249. | 1.3 | 103 |
| 40 | Expression of human lactoferrin in transgenic rice grains for the application in infant formula. Plant Science, 2002, 163, 713-722. | 1.7 | 164 |
| 41 | Expression and inheritance of nine transgenes in rice. Transgenic Research, 2002, 11, 533-541. | 1.3 | 39 |
| 42 | Expression of natural antimicrobial human lysozyme in rice grains. Molecular Breeding, 2002, 10, 83-94. | 1.0 | 50 |
| 43 | The tissue-specific activity of a rice beta-glucanase promoter (Gns9) is used to select rice transformants. Plant Science, 2001, 161, 589-595. | 1.7 | 27 |
| 44 | Expression and Purification of Functional Human α -1-Antitrypsin from Cultured Plant Cells. Biotechnology Progress, 2001, 17, 126-133. | 1.3 | 101 |
| 45 | Production of novel SARS-CoV-2 Spike truncations in Chinese hamster ovary cells leads to high expression and binding to antibodies. Biotechnology Journal, 0, , 2100678. | 1.8 | 2 |