

# Sumit G Gandhi

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,248  
citations

279487

23  
h-index

223531

46  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2932  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Heterochromatic Silencing and HP1 Localization in <i>Drosophila</i> Are Dependent on the RNAi Machinery. <i>Science</i> , 2004, 303, 669-672.  | 6.0 | 624       |
| 2  | Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in <i>Lycopersicon esculentum</i> under metal toxicity. <i>Scientific Reports</i> , 2019, 9, 5855. | 1.6 | 163       |
| 3  | Changing trends in biotechnology of secondary metabolism in medicinal and aromatic plants. <i>Planta</i> , 2015, 241, 303-317.   | 1.6 | 103       |
| 4  | Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in <i>Solanum lycopersicum</i> by modulating the expression of secondary metabolites. <i>Chemosphere</i> , 2019, 230, 628-639.          | 4.2 | 101       |
| 5  | Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression. <i>Chemosphere</i> , 2019, 235, 734-748.                                   | 4.2 | 96        |
| 6  | Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression. <i>Chemosphere</i> , 2019, 217, 463-474.   | 4.2 | 81        |
| 7  | Capsaicin production by <i>Alternaria alternata</i> , an endophytic fungus from <i>Capsicum annum</i> ; LC-MS/MS analysis. <i>Phytochemistry</i> , 2014, 98, 183-189.  | 1.4 | 79        |
| 8  | Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of <i>Meloidogyne incognita</i> through improved plant defense of <i>Lycopersicon esculentum</i> . <i>Plant and Soil</i> , 2019, 436, 325-345.                  | 1.8 | 60        |
| 9  | Discovery of Helminthosporin, an Anthraquinone Isolated from <i>Rumex abyssinicus</i> Jacq as a Dual Cholinesterase Inhibitor. <i>ACS Omega</i> , 2020, 5, 1616-1624.  | 1.6 | 52        |
| 10 | Molecular cloning and functional characterization of an antifungal PR-5 protein from <i>Ocimum basilicum</i> . <i>Gene</i> , 2015, 558, 143-151.   | 1.0 | 50        |
| 11 | Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 283-294.                                       | 2.9 | 49        |
| 12 | Cloning and expression analysis of chalcone synthase gene from <i>Coleus forskohlii</i> . <i>Journal of Genetics</i> , 2016, 95, 647-657.  | 0.4 | 44        |
| 13 | Discovery and Preclinical Development of IIM-290, an Orally Active Potent Cyclin-Dependent Kinase Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1664-1687.  | 2.9 | 39        |
| 14 | Convergence of therapy-induced senescence (TIS) and EMT in multistep carcinogenesis: current opinions and emerging perspectives. <i>Cell Death Discovery</i> , 2020, 6, 51.  | 2.0 | 38        |
| 15 | Epigenetic modifier induced enhancement of fumiquinazoline C production in <i>Aspergillus fumigatus</i> (GA-L7): an endophytic fungus from <i>Grewia asiatica</i> L.. <i>AMB Express</i> , 2017, 7, 43.                              | 1.4 | 37        |
| 16 | Analysis of SSR dynamics in chloroplast genomes of Brassicaceae family. <i>Bioinformatics</i> , 2010, 5, 16-20.  | 0.2 | 36        |
| 17 | Inhibition of Twist1-mediated invasion by Chk2 promotes premature senescence in p53-defective cancer cells. <i>Cell Death and Differentiation</i> , 2017, 24, 1275-1287.   | 5.0 | 34        |
| 18 | Plant Omics: Isolation, Identification, and Expression Analysis of Cytochrome P450 Gene Sequences from <i>Coleus forskohlii</i> . <i>OMICS A Journal of Integrative Biology</i> , 2015, 19, 782-792.                                 | 1.0 | 33        |

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|----|---|-----|-----------|
| 19 | Anti-inflammatory chromone alkaloids and glycoside from <i>Dysoxylum binectariferum</i> . <i>Tetrahedron Letters</i> , 2017, 58, 3974-3978.   | 0.7 | 32        |
| 20 | A chromatography-free isolation of rohitukine from leaves of <i>Dysoxylum binectariferum</i> : Evaluation for in vitro cytotoxicity, Cdk inhibition and physicochemical properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3457-3463.  | 1.0 | 31        |
| 21 | Plant aquaporins: A frontward to make crop plants drought resistant. <i>Physiologia Plantarum</i> , 2021, 172, 1089-1105.   | 2.6 | 30        |
| 22 | Vimentin activation in early apoptotic cancer cells errands survival pathways during DNA damage inducer CPT treatment in colon carcinoma model. <i>Cell Death and Disease</i> , 2019, 10, 467.  | 2.7 | 28        |
| 23 | Seed Priming with Jasmonic Acid Counteracts Root Knot Nematode Infection in Tomato by Modulating the Activity and Expression of Antioxidative Enzymes. <i>Biomolecules</i> , 2020, 10, 98.  | 1.8 | 26        |
| 24 | Amelioration of Chromium-Induced Oxidative Stress by Combined Treatment of Selected Plant-Growth-Promoting Rhizobacteria and Earthworms via Modulating the Expression of Genes Related to Reactive Oxygen Species Metabolism in <i>Brassica juncea</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 802512. | 1.5 | 25        |
| 25 | Production of rohitukine in leaves and seeds of <i>Dysoxylum binectariferum</i> : An alternate renewable resource. <i>Pharmaceutical Biology</i> , 2015, 53, 446-450.   | 1.3 | 24        |
| 26 | Mannitol Stress Directs Flavonoid Metabolism toward Synthesis of Flavones via Differential Regulation of Two Cytochrome P450 Monooxygenases in <i>Coleus forskohlii</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 985.   | 1.7 | 21        |
| 27 | Indolykjojl methane analogue IKM5 potentially inhibits invasion of breast cancer cells via attenuation of GRP78. <i>Breast Cancer Research and Treatment</i> , 2019, 177, 307-323.  | 1.1 | 21        |
| 28 | Insights from a Pan India Sero-Epidemiological survey (Phenome-India Cohort) for SARS-CoV2. <i>ELife</i> , 2021, 10, .  | 2.8 | 21        |
| 29 | Evaluation of the role of Rhizobacteria in controlling root knot nematode (RKN) infection in <i>Lycopersicon esculentum</i> plants by modulation in the secondary metabolite profiles. <i>AoB PLANTS</i> , 2019, , .  | 1.2 | 19        |
| 30 | Optimization and validation of RT-LAMP assay for diagnosis of SARS-CoV2 including the globally dominant Delta variant. <i>Virology Journal</i> , 2021, 18, 178.   | 1.4 | 17        |
| 31 | Differential regulation of NM23-H1 under hypoxic and serum starvation conditions in metastatic cancer cells and its implication in EMT. <i>European Journal of Cell Biology</i> , 2017, 96, 164-171.  | 1.6 | 16        |
| 32 | Alkyne-azide cycloaddition analogues of dehydrozingerone as potential anti-prostate cancer inhibitors via the PI3K/Akt/NF- $\kappa$ B pathway. <i>MedChemComm</i> , 2017, 8, 2115-2124.   | 3.5 | 15        |
| 33 | Par-4 mediated Smad4 induction in PDAC cells restores canonical TGF- $\beta$ 2/ Smad4 axis driving the cells towards lethal EMT. <i>European Journal of Cell Biology</i> , 2020, 99, 151076.  | 1.6 | 15        |
| 34 | Development of chemical and EST-SSR markers for <i>Ocimum</i> genus. <i>Industrial Crops and Products</i> , 2015, 63, 65-70.  | 2.5 | 14        |
| 35 | Revelation and cloning of valinomycin synthetase genes in <i>Streptomyces lavendulae</i> ACR-DA1 and their expression analysis under different fermentation and elicitation conditions. <i>Journal of Biotechnology</i> , 2017, 253, 40-47.   | 1.9 | 14        |
| 36 | Overlapping targets exist between the Par-4 and miR-200c axis which regulate EMT and proliferation of pancreatic cancer cells. <i>Translational Oncology</i> , 2021, 14, 100879.  | 1.7 | 13        |

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|----|---|-----|-----------|
| 37 | Rohitukine inhibits NF- $\kappa$ B activation induced by LPS and other inflammatory agents. International Immunopharmacology, 2019, 69, 34-49.  | 1.7 | 12        |
| 38 | Characterization of the gene encoding 4-coumarate:CoA ligase in <i>Coleus forskohlii</i> . Journal of Plant Biochemistry and Biotechnology, 2019, 28, 203-210.  | 0.9 | 11        |
| 39 | Amelioration of Chlorpyrifos-Induced Toxicity in <i>Brassica juncea</i> L. by Combination of 24-Epibrassinolide and Plant-Growth-Promoting Rhizobacteria. Biomolecules, 2021, 11, 877.  | 1.8 | 11        |
| 40 | Cloning and functional characterization of nitrilase from <i>Fusarium proliferatum</i> AUF-2 for detoxification of nitriles. Functional and Integrative Genomics, 2015, 15, 413-424.  | 1.4 | 10        |
| 41 | Development of chloroplast microsatellite markers for phylogenetic analysis in Brassicaceae. Acta Biologica Hungarica, 2012, 63, 463-473.   | 0.7 | 9         |
| 42 | Mining and characterization of EST-SSR markers for <i>Zingiber officinale</i> Roscoe with transferability to other species of Zingiberaceae. Physiology and Molecular Biology of Plants, 2017, 23, 925-931.   | 1.4 | 9         |
| 43 | Effects of Intermittent Drought on the Essential Oil Yield, Contents, and Nutrient Status of <i>Mentha longifolia</i> (L.) Huds.. Journal of Essential Oil-bearing Plants: JEOP, 2022, 25, 626-638.   | 0.7 | 9         |
| 44 | A comprehensive review of phytochemistry, pharmacology and toxicology of the genus <i>Aconitum</i> L.. Advances in Traditional Medicine, 2023, 23, 299-320.   | 1.0 | 8         |
| 45 | Anti-phytopathogenic and plant growth promoting potential of endophytic fungi isolated from <i>Dysoxylum gotadhora</i> . Archives of Phytopathology and Plant Protection, 2022, 55, 454-473.  | 0.6 | 8         |
| 46 | Plant growth promoting potential of butyl isobutyl phthalate and <i>Streptomyces</i> sp. from <i>Rumex dentatus</i> on rice. Applied Microbiology and Biotechnology, 2022, 106, 2603-2617.  | 1.7 | 8         |
| 47 | A machine learning-based approach to determine infection status in recipients of BBV152 (Covaxin) whole-virion inactivated SARS-CoV-2 vaccine for serological surveys. Computers in Biology and Medicine, 2022, 146, 105419.  | 3.9 | 8         |
| 48 | <i>Drosophila</i> oncogene <i>Gas41</i> is an RNA interference modulator that intersects heterochromatin and the small interfering RNA pathway. FEBS Journal, 2015, 282, 153-173.   | 2.2 | 7         |
| 49 | Endophytes as a Source of High-Value Phytochemicals: Present Scenario and Future Outlook. Reference Series in Phytochemistry, 2019, , 571-590.  | 0.2 | 6         |
| 50 | Evaluation of rohitukine-enriched fraction of <i>Dysoxylum binectariferum</i> Hook.f. (leaves) as anti-arthritic phytopharmaceutical candidate: Chemical standardization, in-vivo validation, formulation development and oral pharmacokinetics. Journal of Ethnopharmacology, 2020, 254, 112758. | 2.0 | 6         |
| 51 | The Rise of Nutraceuticals: Overview and Future. Ecoproduction, 2020, , 67-92.  | 0.8 | 6         |
| 52 | Biotechnology of Biofuels: Historical Overview, Business Outlook and Future Perspectives. Ecoproduction, 2020, , 109-127.   | 0.8 | 5         |
| 53 | Synthetic Biology for Production of Commercially Important Natural Product Small Molecules. , 2019, , 189-205.  |     | 3         |
| 54 | <i>Drosophila maleless</i> gene counteracts X global aneuploid effects in males. FEBS Journal, 2016, 283, 3457-3470.  | 2.2 | 2         |

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|----|---|-----|-----------|
| 55 | Re-Validation of New Develop Highly Sensitive, Simple LCMS/MS Method for the Estimation of Rohitukine and its Application in ADME/Pre-Clinical Pharmacokinetics. Mass Spectrometry & Purification Techniques, 2017, 03, . | 0.2 | 2         |
| 56 | Endophytes as a Source of High-Value, Bioactive Metabolites. Reference Series in Phytochemistry, 2019, , 427-458.   | 0.2 | 2         |
| 57 | Assessment of chemical and genetic variability in <i>Tanacetum gracile</i> accessions collected from cold desert of Western Himalaya. 3 Biotech, 2018, 8, 284.  | 1.1 | 1         |
| 58 | Plant Volatile Organic Compounds and Neuroregenerative Health. , 2020, , 105-136.   |     | 1         |
| 59 | Endophytes as Source of High-Value Phytochemicals: Present Scenario and Future Outlook. Reference Series in Phytochemistry, 2019, , 1-20.   | 0.2 | 0         |
| 60 | Endophytes as a Source of High-Value, Bioactive Metabolites. Reference Series in Phytochemistry, 2019, , 1-32.  | 0.2 | 0         |
| 61 | Induction, Metabolite Analysis, and Transgenesis of Hairy Roots from <i>Coleus forskohlii</i> . Rhizosphere Biology, 2020, , 43-54.   | 0.4 | 0         |
| 62 | Regulations for Health Care Biotechnology Products in Major Markets of the World. Ecoproduction, 2020, , 131-143.   | 0.8 | 0         |