

Publications more than 70 (enlisted publication 2018 onwards)

1. Rather RA, Bhagat M. Cancer chemoprevention and piperine: molecular mechanisms and therapeutic opportunities. *Frontiers in cell and developmental biology*. 2018 Feb 15;6:10.ISSN: 2296634X
2. Bhagat, M., Bandral, A., Bashir, M. and Bindu, K., 2018. GC–MS analysis of essential oil of *Pinus roxburghii* Sarg.(Chir pine) needles and evaluation of antibacterial and anti-proliferative properties. *Indian Journal of Natural Products and Resources (IJNPR)* [Formerly Natural Product Radiance (NPR)], 9(1), pp.34-38. **ISSN: 0976-0512**
3. Bhagat, M., Anand, R., Datt, R., Gupta, V. and Arya, S., 2019. Green synthesis of silver nanoparticles using aqueous extract of *Rosa brunonii* Lindl and their morphological, biological and photocatalytic characterizations. *Journal of Inorganic and Organometallic Polymers and Materials*, 29(3), pp.1039-1047. [.https://doi.org/10.1007/s10904-018-0994-5](https://doi.org/10.1007/s10904-018-0994-5). ISSN:1574-1443. (**Impact factor: 3.543**)
4. Kumar A, Gupta S, Sharma SS and **Bhagat M.** 2018. Characterization of *Picea Smithiana* (Wall.) Boiss essential oil and its antibacterial effect against clinically isolated *Staphylococcus aureus* from pus sample. **Researcher**. XIV (2): 28-34. **ISSN: 2278-9022.**
5. Anand R, **Bhagat M.** Silver nanoparticles (AgNPs): as nanopesticides and nanofertilizers. *MOJ Biol Med.* 2019;4(1):19–20. DOI: 10.15406/mojbm.2019.04.00107.
6. Sharma P, Gupta S, Bhatt N, Ahanger SH, Gupta D, Singh P, Bhagat M. Antioxidant and phytochemical analysis of volatile oil and extracts of *Pinus wallichiana*. *MOJ Biology and Medicine*. 2019;4(2):37-40. DOI: 10.15406/mojbm.2019.04.00111
7. Godwin MA, Mahithashri K, Shiney OJ, Bhagat M, Praseetha PK. Metal incorporated g-C₃N₄ nanosheets as potential cytotoxic agents for promoting free radical scavenging in cancer cell lines. *Journal of nanoscience and nanotechnology*. 2019 Sep 1;19(9):5448-55. **Impact Factor: 1.354**
8. Rather RA, Bhagat M. Quercetin as an innovative therapeutic tool for cancer chemoprevention: Molecular mechanisms and implications in human health. *Cancer medicine*. 2020 Dec;9(24):9181.**Impact Factor: 3.362**
9. Kumar A, Suravajhala R, Bhagat M. Bioactive potential of *Cedrus deodara* (Roxb.) Loud essential oil (bark) against *Curvularia lunata* and molecular docking studies. *SN Applied Sciences*. 2020 Jun;2:1-9. [.https://doi.org/10.1007/s42452-020-2837-6](https://doi.org/10.1007/s42452-020-2837-6).

10. Faheem MM, ur Rasool R, Ahmad SM, Jamwal VL, Chakraborty S, Katoch A, Gandhi SG, Bhagat M, Goswami A. Par-4 mediated Smad4 induction in PDAC cells restores canonical TGF- β /Smad4 axis driving the cells towards lethal EMT. *European Journal of Cell Biology*. 2020 May 1;99(4):151076. **Impact Factor: 4.492**
11. Faheem MM, Seligson ND, Ahmad SM, Rasool RU, Gandhi SG, Bhagat M, Goswami A. Convergence of therapy-induced senescence (TIS) and EMT in multistep carcinogenesis: current opinions and emerging perspectives. *Cell death discovery*. 2020 Jun 15;6(1):1-2. **Impact Factor. 4.53**
12. Bhagat M, Sangral M, Kumar A, Rather RA, Arya K. Chemical, biological and in silico assessment of *Ocimum viride* essential oil. *Heliyon*. 2020 Jun 1;6(6):1-7;[10.1016/j.heliyon.2020.e04209](https://doi.org/10.1016/j.heliyon.2020.e04209) **Impact Factor: 2.85**
13. Rafiq RA, Bhagat M, Singh SK. Oncogenic BRAF, endoplasmic reticulum stress, and autophagy: Crosstalk and therapeutic targets in cutaneous melanoma. *Mutation Research/Reviews in Mutation Research*. 2020 Jul 7:108321. [10.1016/j.mrrev.2020.108321](https://doi.org/10.1016/j.mrrev.2020.108321). **Impact Factor: 6.041 (Review Paper)**
14. Suravajhala R, Bhagat M, Malik B. Emerging Toxicity Aspects of Silver Nanoparticles: An Overview. *Current Nanomaterials*. 2020 Aug 1;5(2):158-64. **DOI : [10.2174/2468187310999200712184531](https://doi.org/10.2174/2468187310999200712184531) (Review Paper)**
15. Bhagat M, Kumar A, Suravajhala R. Cedrus deodara (Bark) Essential Oil Induces Apoptosis in Human Colon Cancer Cells by Inhibiting Nuclear Factor kappa B. *Current Topics in Medicinal Chemistry*. 2020 Sep 1;20(22):1981-92. [10.2174/1568026620666200722120826](https://doi.org/10.2174/1568026620666200722120826). **Impact Factor: 4.008 (Research Paper)**
16. Saini N, Sharma A, Thakur VK, Makatsoris C, Dandia A, Bhagat M, Tonk RK, Sharma PC. Microwave assisted green synthesis of thiazolidin-4-one derivatives: A perspective on potent antiviral and antimicrobial activities. *Current Research in Green and Sustainable Chemistry*. 2020 Jun 1;3:100021. doi.org/10.1016/j.crgsc.2020.100021 **Impact Factor: 6.457. (Review Paper)**
17. Sharma K, Sharma S, Thapa S, **Bhagat M**, Kumar V, Sharma V. Nanohydroxyapatite-, Gelatin-, and Acrylic Acid-Based Novel Dental Restorative Material. *ACS omega*. 2020 Oct 22;5(43):27886-95. **Impact factor: 3.52 (Research Paper)**
18. Rather RA, **Bhagat M**. Quercetin as an innovative therapeutic tool for cancer chemoprevention: Molecular mechanisms and implications in human health. *Cancer medicine*. 2020 Dec;9(24):9181. **Impact factor:4.452. (Review Paper)**
19. Sharma PC, Sharma D, Sharma A, **Bhagat M**, Ola M, Thakur VK, Bhardwaj JK, Goyal RK. Recent advances in microbial toxin-related strategies to combat cancer. In *Seminars in Cancer Biology* 2021 Jul 13. Academic Press. ISSN **1044-579X**. doi: [10.1016/j.semcan.2021.07.007](https://doi.org/10.1016/j.semcan.2021.07.007). **Impact factor: 15.707. (Review Paper)**

20. **Bhagat M**, Anand R, Sharma P, Rajput P, Sharma N, Singh K. Multifunctional Copper Nanoparticles: Synthesis and Applications. *ECS Journal of Solid State Science and Technology*. 2021 Jun 3;10(6) ; 063011. DOI: [10.1149/2162-8777/ac07f8](https://doi.org/10.1149/2162-8777/ac07f8) . **ISSN**: 2162-8769 (print); 2162-8777 (web) **Impact factor: 2.142. (Review Paper)**
21. Yadav M, Goel G, Hatton FL, **Bhagat M**, Mehta SK, Mishra RK, Bhojak N. A review on biomass-derived materials and their applications as corrosion inhibitors, catalysts, food and drug delivery agents. *Current Research in Green and Sustainable Chemistry*. 2021 Jul 15:100153. <https://doi.org/10.1016/j.crgsc.2021.100153>. **ISSN: 2666-0865. Impact Factor: 6. 457. (Review Paper).**
22. Sudan R, Bhagat M, Gupta S, Singh J. Shielding effect on oxidative stress and immune modulating potential of Himalayan Musk Rose (*Rosa brunonii* Lindl.). *Indian Journal of Natural Products and Resources*. Vol. 12(3), September 2021, pp. 400-417. **OI: [10.56042/ijnpr.v12i3.28210](https://doi.org/10.56042/ijnpr.v12i3.28210)**. **ISSN 09760512, 09760504. Impact factor: 0.55 (Research Paper).**
23. Kumar A, Bhagat M, Rai GK, Mahajan B, Bhagat A. Chemical Characterization of Clove (*Syzygium aromaticum*) Bud Essential Oil and Microbicidal Activity against Isolated Clinical Strains. *Indian J Agric Biochem* 34 (2), 138-143, 2021 doi 10.5958/0974-4479.2021.00019.8. Print ISSN : 0970-6399. Online ISSN : 0974-4479
24. Kainth .S, Sharma. M, Basu. S. Yellow emissive carbon dots in ludox silica matrix with anticancer activity for enhanced imaging of developed sweat latent fingerprints. *Materials today Chemistry*. Volume 23, March 2022, 100659. <https://doi.org/10.1016/j.mtchem.2021.100659>. **ISSN: 2468-5194. Impact factor: 8.301 (Research Paper).**
25. Pooja Sharma, Mohammad Urfan, Rythem Anand, Monica Sangral, Haroon Rashid Hakla, Shubham Sharma, Ranjan Das, Sikander Pal, Madhulika Bhagat. Green synthesis of zinc oxide nanoparticles using *Eucalyptus lanceolata* leaf litter: characterization, antimicrobial and agricultural efficacy in maize. *Physiol Mol Biol Plants*. (2022). <https://doi.org/10.1007/s12298-022-01136-0>. **Issn no 0971-5894 . Impact factor: 2.836 (Research Paper).**
26. Faheem, M.M., Bhagat, M., Sharma, P. and Anand, R., 2022. Induction of p53 mediated mitochondrial apoptosis and cell cycle arrest in human breast cancer cells by plant mediated synthesis of silver nanoparticles from *Bergenia ligulata* (Whole plant). *International Journal of Pharmaceutics*, 619, p.121710. <https://www.sciencedirect.com/science/article/abs/pii/S0378517322002654>. **Issn no: 0378-5173.. Impact factor: 5.875 (Research Paper).**
27. Faheem MM, Rahim JU, Ahmad SM, Mir KB, Kaur G, **Bhagat M**, Rai R, Goswami A. Heterochiral dipeptide d-phenylalanyl-l-phenylalanine (H-DPhe-LPhe-OH) as a potential inducer of metastatic suppressor NM23H1 in p53 wild-type and mutant cells. *Molecular Carcinogenesis*. 2022 Dec;61(12):1143-60. <https://doi.org/10.1002/mc.23465> . **Impact factor: 4.784 (Research Paper).**
28. Mir KB, Faheem MM, Ahmad SM, Rasool JU, Amin T, Chakraborty S, **Bhagat M**, Ahmed Z, Ali A, Goswami A. β -(4-fluorobenzyl) Arteannuin B induced interaction of ATF-4 and C/EBP β mediates the transition of breast cancer cells from autophagy to

senescence. **Frontiers in Oncology.** Nov; 2022;12.
<https://doi.org/10.3389/fonc.2022.1013500> **Impact factor: 6.244 (Research Paper).**

29. Bala K, Bhagat M. Nanomaterial-based smart coatings as antimicrobials. In Antiviral and Antimicrobial Smart Coatings 2023 Jan 1 (pp. 413-429). Elsevier.