

# Aruna Jyothi Kora

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	1,687 citations	20 h-index	41 g-index
45 ext. papers	1,941 ext. citations	3.9 avg, IF	5.68 L-index

#	Paper	IF	Citations
41	Gum kondagogu ( <i>Cochlospermum gossypium</i> ): A template for the green synthesis and stabilization of silver nanoparticles with antibacterial application. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 670-679	10.3	245
40	Size-controlled green synthesis of silver nanoparticles mediated by gum ghatti ( <i>Anogeissus latifolia</i> ) and its biological activity. <i>Organic and Medicinal Chemistry Letters</i> , <b>2012</b> , 2, 17		145
39	Aqueous extract of gum olibanum ( <i>Boswellia serrata</i> ): A reductant and stabilizer for the biosynthesis of antibacterial silver nanoparticles. <i>Process Biochemistry</i> , <b>2012</b> , 47, 1516-1520	4.8	114
38	Green synthesis of palladium nanoparticles using gum ghatti ( <i>Anogeissus latifolia</i> ) and its application as an antioxidant and catalyst. <i>Arabian Journal of Chemistry</i> , <b>2018</b> , 11, 1097-1106	5.9	110
37	Assessment of antibacterial activity of silver nanoparticles on <i>Pseudomonas aeruginosa</i> and its mechanism of action. <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 1209-1216	4.4	109
36	Superior bactericidal activity of SDS capped silver nanoparticles: Synthesis and characterization. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 2104-2109	8.3	96
35	Enhancement of antibacterial activity of capped silver nanoparticles in combination with antibiotics, on model gram-negative and gram-positive bacteria. <i>Bioinorganic Chemistry and Applications</i> , <b>2013</b> , 2013, 871097	4.2	90
34	Green Fabrication of Silver Nanoparticles by Gum Tragacanth ( <i>Astragalus gummifer</i> ): A Dual Functional Reductant and Stabilizer. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-8	3.2	80
33	Pitting corrosion of titanium by a freshwater strain of sulphate reducing bacteria ( <i>Desulfovibrio vulgaris</i> ). <i>Corrosion Science</i> , <b>2005</b> , 47, 1071-1084	6.8	74
32	Biogenic silver nanoparticles synthesized with rhamnogalacturonan gum: Antibacterial activity, cytotoxicity and its mode of action. <i>Arabian Journal of Chemistry</i> , <b>2018</b> , 11, 313-323	5.9	68
31	Highly stable, protein capped gold nanoparticles as effective drug delivery vehicles for amino-glycosidic antibiotics. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 1571-7	8.3	63
30	Biofouling and microbial corrosion problem in the thermo-fluid heat exchanger and cooling water system of a nuclear test reactor. <i>Biofouling</i> , <b>2009</b> , 25, 581-91	3.3	62
29	Catalytic degradation of anthropogenic dye pollutants using palladium nanoparticles synthesized by gum olibanum, a glucuronoarabinogalactan biopolymer. <i>Industrial Crops and Products</i> , <b>2016</b> , 81, 1-10	5.9	61
28	Biomimetic synthesis of selenium nanoparticles by <i>Pseudomonas aeruginosa</i> ATCC 27853: An approach for conversion of selenite. <i>Journal of Environmental Management</i> , <b>2016</b> , 181, 231-236	7.9	59
27	Peroxidase activity of biogenic platinum nanoparticles: A colorimetric probe towards selective detection of mercuric ions in water samples. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 254, 690-700	8.5	58
26	Antibacterial activity of biogenic silver nanoparticles synthesized with gum ghatti and gum olibanum: a comparative study. <i>Journal of Antibiotics</i> , <b>2015</b> , 68, 88-97	3.7	51
25	Antibacterial effects of gum kondagogu reduced/stabilized silver nanoparticles in combination with various antibiotics: a mechanistic approach. <i>Applied Nanoscience (Switzerland)</i> , <b>2015</b> , 5, 535-543	3.3	28

24	Bacteriogenic synthesis of selenium nanoparticles by ATCC 35218 and its structural characterisation. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 179-184	2	22
23	Bacillus cereus, selenite-reducing bacterium from contaminated lake of an industrial area: a renewable nanofactory for the synthesis of selenium nanoparticles. <i>Bioresources and Bioprocessing</i> , <b>2018</b> , 5,	5.2	21
22	Facile synthesis of palladium nanocatalyst using gum kondagogu (Cochlospermum gossypium): a natural biopolymer. <i>IET Nanobiotechnology</i> , <b>2015</b> , 9, 362-7	2	20
21	Physico-chemical and bacteriological screening of Hussain Sagar lake: An urban wetlandPeer review under responsibility of National Water Research Center.View all notes. <i>Water Science</i> , <b>2017</b> , 31, 24-33	1.9	18
20	Rice leaf extract synthesized silver nanoparticles: An in vitro fungicidal evaluation against Rhizoctonia solani, the causative agent of sheath blight disease in rice. <i>Fungal Biology</i> , <b>2020</b> , 124, 671-681	2.8	16
19	Tree gum stabilised selenium nanoparticles: characterisation and antioxidant activity. <i>IET Nanobiotechnology</i> , <b>2018</b> , 12, 658-662	2	15
18	Biosynthesis of silver nanoparticles by the seed extract of Strychnos potatorum: a natural phytocoagulant. <i>IET Nanobiotechnology</i> , <b>2013</b> , 7, 83-9	2	9
17	Plant Arabinogalactan Gum Synthesized Palladium Nanoparticles: Characterization and Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2019</b> , 29, 2054-2063	3.2	8
16	Leaves as dining plates, food wraps and food packing material: Importance of renewable resources in Indian culture. <i>Bulletin of the National Research Centre</i> , <b>2019</b> , 43,	3	8
15	Growth and metabolic characteristics of fastidious meat-derived Lactobacillus algidus strains. <i>International Journal of Food Microbiology</i> , <b>2020</b> , 313, 108379	5.8	7
14	Biogenic silver nanoparticles as an antibacterial agent against bacterial leaf blight causing rice phytopathogen Xanthomonas oryzae pv. oryzae. <i>Bioprocess and Biosystems Engineering</i> , <b>2021</b> , 44, 1975-1988	3.7	7
13	Applications of sand roasting and baking in the preparation of traditional Indian snacks: nutritional and antioxidant status. <i>Bulletin of the National Research Centre</i> , <b>2019</b> , 43,	3	7
12	Nutritional and antioxidant significance of selenium-enriched mushrooms. <i>Bulletin of the National Research Centre</i> , <b>2020</b> , 44,	3	5
11	Multifaceted activities of plant gum synthesised platinum nanoparticles: catalytic, peroxidase, PCR enhancing and antioxidant activities. <i>IET Nanobiotechnology</i> , <b>2019</b> , 13, 602-608	2	4
10	Plant and Tree Gums as Renewable Feedstocks for the Phytosynthesis of Nanoparticles: A Green Chemistry Approach <b>2018</b> , 79-111		3
9	Gram + ve bacterium Staphylococcus aureus : a potential source for the green biosynthesis of monodispersed, smaller selenium nanoparticles. <i>Micro and Nano Letters</i> , <b>2018</b> , 13, 1155-1158	0.9	1
8	In situ synthesis and preconcentration of cetylpyridinium complexed hexaiodo platinum nanoparticles from spent automobile catalytic converter leachate using cloud point extraction. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 4594-4605	5.9	1
7	An in-house UV-photolysis setup for the rapid degradation of both cationic and anionic dyes in dynamic mode through UV/H <sub>2</sub> O <sub>2</sub> -based advanced oxidation process. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-17	1.8	0

6	Exudate Tree Gums: Properties and Applications <b>2021</b> , 205-220	o
5	Applications of biogenic silver nanocrystals or nanoparticles as bactericide and fungicide <b>2022</b> , 335-352	o
4	Exopolymer produced by <i>Pseudomonas aeruginosa</i> : A super sorbent for ruthenium. <i>Separation Science and Technology</i> , <b>2016</b> , 1-6	2.5
3	Applications of Waste Decomposer in Plant Health Protection, Crop Productivity and Soil Health Management. <i>Environmental and Microbial Biotechnology</i> , <b>2022</b> , 609-624	1.4
2	Covellite (CuS) as a novel adsorbent for the direct removal of As(III) and As(V) simultaneously from groundwater. <i>Separation Science and Technology</i> , 1-15	2.5
1	Ekavimsati patrani (21 leaves) used during Vinayaka Chaviti festival in India: medicinal, environmental and cultural importance. <i>Advances in Traditional Medicine</i> , 1	1.4