

# Akhilesh K Chaurasia

## List of Publications by Year in descending order

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27  
papers

912  
citations

471509

17  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic Benzene Oxidation via Phenol in <i>Geobacter metallireducens</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 7800-7806.	3.1	99
2	Polyaniline-Based Highly Sensitive Microbial Biosensor for Selective Detection of Lindane. <i>Analytical Chemistry</i> , 2012, 84, 6672-6678.	6.5	98
3	Self-sustainable <i>Chlorella pyrenoidosa</i> strain NCIM 2738 based photobioreactor for removal of Direct Red-31 dye along with other industrial pollutants to improve the water-quality. <i>Journal of Hazardous Materials</i> , 2016, 306, 386-394.	12.4	77
4	Cancer cell extinction through a magnetic fluid hyperthermia treatment produced by superparamagnetic Co <sup>2+</sup> /Zn ferrite nanoparticles. <i>RSC Advances</i> , 2015, 5, 47225-47234.	3.6	67
5	Cyanobacterial heat-shock response: role and regulation of molecular chaperones. <i>Microbiology (United Kingdom)</i> , 2014, 160, 647-658.	1.8	61
6	Synthesis, characterization and biocompatibility of chitosan functionalized superparamagnetic nanoparticles for heat activated curing of cancer cells. <i>Dalton Transactions</i> , 2014, 43, 17343-17351.	3.3	59
7	An integrative expression vector for strain improvement and environmental applications of the nitrogen fixing cyanobacterium, <i>Anabaena</i> sp. strain PCC7120. <i>Journal of Microbiological Methods</i> , 2008, 73, 133-141.	1.6	56
8	Overexpression of the <i>groESL</i> Operon Enhances the Heat and Salinity Stress Tolerance of the Nitrogen-Fixing Cyanobacterium <i>Anabaena</i> sp. Strain PCC7120. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6008-6012.	3.1	46
9	Improved Eco-Friendly Recombinant <i>Anabaena</i> sp. Strain PCC7120 with Enhanced Nitrogen Biofertilizer Potential. <i>Applied and Environmental Microbiology</i> , 2011, 77, 395-399.	3.1	41
10	Engineering bacteria for bioremediation of persistent organochlorine pesticide lindane ( <sup>13</sup> C-hexachlorocyclohexane). <i>Bioresource Technology</i> , 2013, 149, 439-445.	9.6	40
11	Coupling of radiofrequency with magnetic nanoparticles treatment as an alternative physical antibacterial strategy against multiple drug resistant bacteria. <i>Scientific Reports</i> , 2016, 6, 33662.	3.3	40
12	Performance evaluation of isolated electrogenic microalga coupled with graphene oxide for decolorization of textile dye wastewater and subsequent lipid production. <i>Chemical Engineering Journal</i> , 2019, 375, 121950.	12.7	34
13	Evidence of <i>Geobacter</i> -associated phage in a uranium-contaminated aquifer. <i>ISME Journal</i> , 2015, 9, 333-346.	9.8	28
14	Identification of genes specifically required for the anaerobic metabolism of benzene in <i>Geobacter metallireducens</i> . <i>Frontiers in Microbiology</i> , 2014, 5, 245.	3.5	26
15	Identification and Validation of an Antivirulence Agent Targeting HlyU-Regulated Virulence in <i>Vibrio vulnificus</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 152.	3.9	24
16	Alternative Enzyme Protection Assay To Overcome the Drawbacks of the Gentamicin Protection Assay for Measuring Entry and Intracellular Survival of Staphylococci. <i>Infection and Immunity</i> , 2019, 87, .	2.2	23
17	Targeting Mannitol Metabolism as an Alternative Antimicrobial Strategy Based on the Structure-Function Study of Mannitol-1-Phosphate Dehydrogenase in <i>Staphylococcus aureus</i> . <i>MBio</i> , 2019, 10, .	4.1	22
18	An Antibacterial Nanorobotic Approach for the Specific Targeting and Removal of Multiple Drug-Resistant <i>Staphylococcus aureus</i> . <i>Small</i> , 2021, 17, e2100257.	10.0	20

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19	Genetic evidence that the degradation of <i>p</i> -cresol by <i>Geobacter metallireducens</i> is catalyzed by the periplasmic <i>p</i> -cresol methylhydroxylase. FEMS Microbiology Letters, 2015, 362, fnv145.	1.8	9
20	Structural and functional study of ChuY from Escherichia coli strain CFT073. Biochemical and Biophysical Research Communications, 2017, 482, 1176-1182.	2.1	9
21	Functional Identification of Serine Hydroxymethyltransferase as a Key Gene Involved in Lysostaphin Resistance and Virulence Potential of Staphylococcus aureus Strains. International Journal of Molecular Sciences, 2020, 21, 9135.	4.1	9
22	Genome-Wide Analysis of Staphylococcus aureus Sequence Type 72 Isolates Provides Insights Into Resistance Against Antimicrobial Agents and Virulence Potential. Frontiers in Microbiology, 2020, 11, 613800.	3.5	8
23	Identification of 2,4-Dihydroxychalcone as an Antivirulence Agent Targeting HlyU, a Master Virulence Regulator in Vibrio vulnificus. Molecules, 2018, 23, 1492.	3.8	6
24	Tocopherol levels in different mango varieties correlate with MiHPPD expression and its over-expression elevates tocopherols in transgenic Arabidopsis and tomato. 3 Biotech, 2017, 7, 352.	2.2	4
25	In silico analysis and experimental validation of lipoprotein and novel Tat signal peptides processing in Anabaena sp. PCC7120. Journal of Microbiology, 2015, 53, 837-846.	2.8	3
26	Draft Genome Sequences of Lysostaphin-Resistant (K07-204) and Lysostaphin-Susceptible (K07-561) Staphylococcus aureus Sequence Type 72 Strains Isolated from Patients in South Korea. Microbiology Resource Announcements, 2020, 9, .	0.6	2
27	Multiple Chaperonins in Cyanobacteria: Why One Is Not Enough!. Heat Shock Proteins, 2017, , 93-109.	0.2	0