

Shams Tabrez Khan

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.

79
papers

2,456
citations

32
h-index

46
g-index

82
ext. papers

3,018
ext. citations

3.6
avg, IF

5.42
L-index

#	Paper	IF	Citations
79	Members of the family Comamonadaceae as primary poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-degrading denitrifiers in activated sludge as revealed by a polyphasic approach. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3206-14	4.8	180
78	Zinc oxide nanoparticle-mediated changes in photosynthetic efficiency and antioxidant system of tomato plants. <i>Photosynthetica</i> , 2018 , 56, 678-686	2.2	133
77	Application of polyhydroxyalkanoates for denitrification in water and wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2003 , 61, 103-9	5.7	130
76	Countering drug resistance, infectious diseases, and sepsis using metal and metal oxides nanoparticles: Current status. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 146, 70-83	6	122
75	Engineered nanomaterials for water decontamination and purification: From lab to products. <i>Journal of Hazardous Materials</i> , 2019 , 363, 295-308	12.8	104
74	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. <i>Molecules</i> , 2020 , 26,	4.8	94
73	Diaphorobacter nitroreducens gen nov, sp nov, a poly(3-hydroxybutyrate)-degrading denitrifying bacterium isolated from activated sludge. <i>Journal of General and Applied Microbiology</i> , 2002 , 48, 299-308 ^{1.5}	1.5	72
72	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , 2018 , 47, 11988-12010	4.3	66
71	Streptomyces associated with a marine sponge Haliclona sp.; biosynthetic genes for secondary metabolites and products. <i>Environmental Microbiology</i> , 2011 , 13, 391-403	5.2	62
70	ZnO and TiO ₂ nanoparticles as novel antimicrobial agents for oral hygiene: a review. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	52
69	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 73-81	6	47
68	Antibacterial properties of silver nanoparticles synthesized using Pulicaria glutinosa plant extract as a green bioreductant. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3551-65	7.3	47
67	Biocidal effect of copper and zinc oxide nanoparticles on human oral microbiome and biofilm formation. <i>Materials Letters</i> , 2013 , 97, 67-70	3.3	46
66	Thymol and carvacrol induce autolysis, stress, growth inhibition and reduce the biofilm formation by Streptococcus mutans. <i>AMB Express</i> , 2017 , 7, 49	4.1	45
65	Sponge-derived Streptomyces producing isoprenoids via the mevalonate pathway. <i>Journal of Natural Products</i> , 2010 , 73, 208-12	4.9	42
64	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. <i>RSC Advances</i> , 2016 , 6, 26111-26120	3.7	41
63	Anti-biofilm and antibacterial activities of zinc oxide nanoparticles against the oral opportunistic pathogens Rothia dentocariosa and Rothia mucilaginosa. <i>European Journal of Oral Sciences</i> , 2014 , 122, 397-403	2.3	40

62	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 211-7	6	40
61	Activity and Community Composition of Denitrifying Bacteria in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-Using Solid-phase Denitrification Processes. <i>Microbes and Environments</i> , 2007 , 22, 20-31	2.6	40
60	Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. <i>Toxicology and Applied Pharmacology</i> , 2013 , 273, 289-97	4.6	39
59	Novel pyrazolyl-s-triazine derivatives, molecular structure and antimicrobial activity. <i>Journal of Molecular Structure</i> , 2017 , 1145, 244-253	3.4	37
58	Streptomyces tateyamensis sp. nov., Streptomyces marinus sp. nov. and Streptomyces haliclona sp. nov., isolated from the marine sponge Haliclona sp. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010 , 60, 2775-2779	2.2	37
57	Emended descriptions of the genus Lewinella and of Lewinella cohaerens, Lewinella nigricans and Lewinella persica, and description of Lewinella lutea sp. nov. and Lewinella marina sp. nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 2946-2951	2.2	37
56	JBIR-31, a new teleocidin analog, produced by salt-requiring Streptomyces sp. NBRC 105896 isolated from a marine sponge. <i>Journal of Antibiotics</i> , 2010 , 63, 33-6	3.7	36
55	New sesquiterpenes, JBIR-27 and -28, isolated from a tunicate-derived fungus, Penicillium sp. SS080624SCf1. <i>Journal of Antibiotics</i> , 2009 , 62, 247-50	3.7	35
54	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , 2020 , 5, 1987-1996	3.9	34
53	Characterization of the Microbial Community and Culturable Denitrifying Bacteria in a Solid-phase Denitrification Process Using Poly(ϵ -caprolactone) as the Carbon and Energy Source. <i>Microbes and Environments</i> , 2005 , 20, 25-33	2.6	34
52	Zinc oxide and titanium dioxide nanoparticles induce oxidative stress, inhibit growth, and attenuate biofilm formation activity of Streptococcus mitis. <i>Journal of Biological Inorganic Chemistry</i> , 2016 , 21, 2953-303	3.7	33
51	JBIR-56 and JBIR-57, 2(1H)-pyrazinones from a marine sponge-derived Streptomyces sp. SpD081030SC-03. <i>Journal of Natural Products</i> , 2011 , 74, 1630-5	4.9	33
50	Sediminibacter furfurosus gen. nov., sp. nov. and Gilvibacter sediminis gen. nov., sp. nov., novel members of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 265-269	2.2	33
49	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , 2016 , 36, 1284-93	4.1	32
48	Comparative effectiveness of NiCl ₂ , Ni- and NiO-NPs in controlling oral bacterial growth and biofilm formation on oral surfaces. <i>Archives of Oral Biology</i> , 2013 , 58, 1804-11	2.8	32
47	Paracoccus marinus sp. nov., an adonixanthin diglucoside-producing bacterium isolated from coastal seawater in Tokyo Bay. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008 , 58, 383-6	2.2	32
46	"Miswak" Based Green Synthesis of Silver Nanoparticles: Evaluation and Comparison of Their Microbicidal Activities with the Chemical Synthesis. <i>Molecules</i> , 2016 , 21,	4.8	31
45	Distribution of the 3-hydroxyl-3-methylglutaryl coenzyme A reductase gene and isoprenoid production in marine-derived Actinobacteria. <i>FEMS Microbiology Letters</i> , 2010 , 304, 89-96	2.9	29

44	The composition of the essential oil and aqueous distillate of <i>Origanum vulgare</i> L. growing in Saudi Arabia and evaluation of their antibacterial activity. <i>Arabian Journal of Chemistry</i> , 2018 , 11, 1189-1200	5.9	27
43	<i>Krokinobacter</i> gen. nov., with three novel species, in the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006 , 56, 323-328	2.2	27
42	Chemical diversity in leaf and stem essential oils of <i>Origanum vulgare</i> L. and their effects on microbicidal activities. <i>AMB Express</i> , 2019 , 9, 176	4.1	26
41	JBIR-65, a new diterpene, isolated from a sponge-derived <i>Actinomadura</i> sp. SpB081030SC-15. <i>Journal of Antibiotics</i> , 2010 , 63, 401-3	3.7	24
40	JBIR-58, a new salicylamide derivative, isolated from a marine sponge-derived <i>Streptomyces</i> sp. SpD081030ME-02. <i>Journal of Antibiotics</i> , 2010 , 63, 267-9	3.7	23
39	Sub-lethal doses of widespread nanoparticles promote antifungal activity in <i>Pseudomonas protegens</i> CHA0. <i>Science of the Total Environment</i> , 2018 , 627, 658-662	10.2	21
38	JBIR-37 and -38, novel glycosyl benzenediols, isolated from the sponge-derived fungus, <i>Acremonium</i> sp. SpF080624G1F01. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 2138-40	2.1	20
37	Genotoxicity of ferric oxide nanoparticles in <i>Raphanus sativus</i> : Deciphering the role of signaling factors, oxidative stress and cell death. <i>Journal of Environmental Sciences</i> , 2016 , 47, 49-62	6.4	20
36	<i>Paraoerskovia marina</i> gen. nov., sp. nov., an actinobacterium isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009 , 59, 2094-8	2.2	19
35	Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their applications for statistical analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 69, 101-108	3	17
34	<i>Sandarakinotalea sediminis</i> gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006 , 56, 959-963	2.2	17
33	<i>Sedimicola luteus</i> gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006 , 56, 841-845	2.2	16
32	<i>Galbibacter mesophilus</i> gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 969-973	2.2	15
31	Survival of probiotic bacteria in the presence of food grade nanoparticles from chocolates: an in vitro and in vivo study. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 6689-6700	5.7	14
30	Discovery of a pimaricin analog JBIR-13, from <i>Streptomyces bicolor</i> NBRC 12746 as predicted by sequence analysis of type I polyketide synthase gene. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 127-33	5.7	14
29	<i>Streptomyces aomiensis</i> sp. nov., isolated from a soil sample using the membrane-filter method. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011 , 61, 947-950	2.2	14
28	<i>Sediminitomix flava</i> gen. nov., sp. nov., of the phylum Bacteroidetes, isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 1689-1693	2.2	14
27	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO nanoparticles in A549 cells. <i>Human and Experimental Toxicology</i> , 2018 , 37, 496-507	3.4	13

26	JBIR-66, a new metabolite isolated from tunicate-derived <i>Saccharopolyspora</i> sp. SS081219JE-28. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 2355-7	2.1	13
25	The influence of soil properties and geographical distance on the bacterial community compositions of paddy soils enriched on SMFC anodes. <i>Journal of Soils and Sediments</i> , 2018 , 18, 517-525	3.4	12
24	Actinobacteria associated with the marine sponges <i>Cinachyra</i> sp., <i>Petrosia</i> sp., and <i>Ulosa</i> sp. and their culturability. <i>Microbes and Environments</i> , 2012 , 27, 99-104	2.6	12
23	<i>Fulvibacter tottoriensis</i> gen. nov., sp. nov., a member of the family Flavobacteriaceae isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008 , 58, 1670-4	2.2	12
22	Spectral and thermal properties of novel eye lens crystallin. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 1052-1058	7.9	10
21	Antibiotic and Antibiofilm Activities of L. Essential Oils against : A Detailed Comparative Study with Chlorhexidine Digluconate. <i>Pathogens</i> , 2020 , 9,	4.5	10
20	Diversity of bacteria and polyketide synthase associated with marine sponge <i>Haliclona</i> sp.. <i>Annals of Microbiology</i> , 2014 , 64, 199-207	3.2	10
19	MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor. <i>Vacuum</i> , 2017 , 146, 623-632	3.7	8
18	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2017 , 64, 203-216	1.8	8
17	Antibiofilm activity of synthesized electrospun core-shell nanofiber composites of PLA and PVA with silver nanoparticles. <i>Materials Research Express</i> , 2018 , 5, 095001	1.7	7
16	<i>Paraferrimonas sedimenticola</i> gen. nov., sp. nov., a marine bacterium of the family Ferrimonadaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007 , 57, 1493-1498	2.2	7
15	Major carotenoid isolated from <i>Paracoccus schoinia</i> NBRC 100637T is adonixanthin diglucoside. <i>Journal of Natural Products</i> , 2006 , 69, 1823-5	4.9	7
14	Comparative cytotoxicity of dolomite nanoparticles in human larynx HEp2 and liver HepG2 cells. <i>Journal of Applied Toxicology</i> , 2015 , 35, 640-50	4.1	6
13	Assessing Methanogenic Archaeal Community in Full Scale Anaerobic Sludge Digester Systems in Dubai, United Arab Emirates. <i>Open Microbiology Journal</i> , 2018 , 12, 123-134	0.8	6
12	CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. <i>Korean Chemical Engineering Research</i> , 2015 , 53, 565-569		6
11	Functionalization of anti-Brucella antibody on ZnO-NPs and their deposition on aluminum sheet towards developing a sensor for the detection of Brucella. <i>Vacuum</i> , 2017 , 146, 592-598	3.7	5
10	Microbial communities and their predictive functional profiles in the arid soil of Saudi Arabia. <i>Soil</i> , 2020 , 6, 513-521	5.8	5
9	Zinc Oxide Nanoparticles: Mechanism(s) of Cell Death Induced in Human Epidermoid Larynx Cell Line (HEp-2). <i>Nanoscience and Nanotechnology Letters</i> , 2017 , 9, 573-582	0.8	4

8	An improved method of DNA preparation for PCR-based detection of Brucella in raw camel milk samples from Riyadh region and its comparison with immunological methods. <i>Journal of Food Safety</i> , 2018 , 38, e12381	2	4
7	Metals and Metal Oxides: Important Nanomaterials With Antimicrobial Activity 2017 , 195-222		3
6	Nitrate removal performance of <i>Diaphorobacter nitroreducens</i> using biodegradable plastics as the source of reducing power 2015 ,		3
5	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016 , 11, 6-11	1-3	3
4	Occurrence of Extended Spectrum Beta-Lactamase Gram-Negative Bacteria from Non-Clinical Sources in Dubai, United Arab Emirates. <i>Water (Switzerland)</i> , 2020 , 12, 2562	3	2
3	Engineered Nanomaterials in Soil: Their Impact on Soil Microbiome and Plant Health.. <i>Plants</i> , 2021 , 11,	4-5	2
2	Bacterial isolates exhibiting multidrug resistance, hemolytic activity, and high 16S rRNA gene similarity with well-known pathogens found in camel milk samples of Riyadh region. <i>Apmis</i> , 2018 , 126, 215-226	3-4	1
1	Illumina sequencing of 16S rRNA genes reveals a unique microbial community in three anaerobic sludge digesters of Dubai. <i>PLoS ONE</i> , 2021 , 16, e0249023	3-7	1