

# Shams Tabrez Khan

## List of Publications by Year in Descending Order

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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	Illumina sequencing of 16S rRNA genes reveals a unique microbial community in three anaerobic sludge digesters of Dubai. <i>PLoS ONE</i> , <b>2021</b> , 16, e0249023	3.7	1
78	Engineered Nanomaterials in Soil: Their Impact on Soil Microbiome and Plant Health.. <i>Plants</i> , <b>2021</b> , 11,	4.5	2
77	Antibiotic and Antibiofilm Activities of L. Essential Oils against : A Detailed Comparative Study with Chlorhexidine Digluconate. <i>Pathogens</i> , <b>2020</b> , 9,	4.5	10
76	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , <b>2020</b> , 5, 1987-1996	3.9	34
75	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. <i>Molecules</i> , <b>2020</b> , 26,	4.8	94
74	Microbial communities and their predictive functional profiles in the arid soil of Saudi Arabia. <i>Soil</i> , <b>2020</b> , 6, 513-521	5.8	5
73	Occurrence of Extended Spectrum Beta-Lactamase Gram-Negative Bacteria from Non-Clinical Sources in Dubai, United Arab Emirates. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2562	3	2
72	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> , <b>2019</b> , 103, 6689-6700	5.7	14
71	Chemical diversity in leaf and stem essential oils of <i>Origanum vulgare</i> L. and their effects on microbicidal activities. <i>AMB Express</i> , <b>2019</b> , 9, 176	4.1	26
70	Engineered nanomaterials for water decontamination and purification: From lab to products. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 363, 295-308	12.8	104
69	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> , <b>2018</b> , 126, 215-226	3.4	1
68	Sub-lethal doses of widespread nanoparticles promote antifungal activity in <i>Pseudomonas protegens</i> CHA0. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 658-662	10.2	21
67	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> , <b>2018</b> , 11, 1189-1200	5.9	27
66	Zinc oxide nanoparticle-mediated changes in photosynthetic efficiency and antioxidant system of tomato plants. <i>Photosynthetica</i> , <b>2018</b> , 56, 678-686	2.2	133
65	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO nanoparticles in A549 cells. <i>Human and Experimental Toxicology</i> , <b>2018</b> , 37, 496-507	3.4	13
64	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> , <b>2018</b> , 18, 517-525	3.4	12
63	Antibiofilm activity of synthesized electrospun core-shell nanofiber composites of PLA and PVA with silver nanoparticles. <i>Materials Research Express</i> , <b>2018</b> , 5, 095001	1.7	7

62	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , <b>2018</b> , 47, 11988-12010	4.3	66
61	Assessing Methanogenic Archaeal Community in Full Scale Anaerobic Sludge Digester Systems in Dubai, United Arab Emirates. <i>Open Microbiology Journal</i> , <b>2018</b> , 12, 123-134	0.8	6
60	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> , <b>2018</b> , 38, e12381	2	4
59	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> , <b>2017</b> , 146, 592-598	3.7	5
58	MWCNTs functionalization and immobilization with anti-Brucella antibody; towards the development of a nanosensor. <i>Vacuum</i> , <b>2017</b> , 146, 623-632	3.7	8
57	Thymol and carvacrol induce autolysis, stress, growth inhibition and reduce the biofilm formation by <i>Streptococcus mutans</i> . <i>AMB Express</i> , <b>2017</b> , 7, 49	4.1	45
56	Spectral and thermal properties of novel eye lens $\beta$ -crystallin. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 1052-1058	7.9	10
55	Novel pyrazolyl-s-triazine derivatives, molecular structure and antimicrobial activity. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1145, 244-253	3.4	37
54	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. <i>Acta Microbiologica Et Immunologica Hungarica</i> , <b>2017</b> , 64, 203-216	1.8	8
53	Metals and Metal Oxides: Important Nanomaterials With Antimicrobial Activity <b>2017</b> , 195-222		3
52	Zinc Oxide Nanoparticles: Mechanism(s) of Cell Death Induced in Human Epidermoid Larynx Cell Line (HEp-2). <i>Nanoscience and Nanotechnology Letters</i> , <b>2017</b> , 9, 573-582	0.8	4
51	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. <i>Journal of Applied Toxicology</i> , <b>2016</b> , 36, 1284-93	4.1	32
50	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. <i>RSC Advances</i> , <b>2016</b> , 6, 26111-26120	3.7	41
49	Zinc oxide and titanium dioxide nanoparticles induce oxidative stress, inhibit growth, and attenuate biofilm formation activity of <i>Streptococcus mitis</i> . <i>Journal of Biological Inorganic Chemistry</i> , <b>2016</b> , 21, 2953-303	3.7	33
48	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2016</b> , 11, 6-11	1.3	3
47	"Miswak" Based Green Synthesis of Silver Nanoparticles: Evaluation and Comparison of Their Microbicidal Activities with the Chemical Synthesis. <i>Molecules</i> , <b>2016</b> , 21,	4.8	31
46	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> , <b>2016</b> , 47, 49-62	6.4	20
45	Countering drug resistance, infectious diseases, and sepsis using metal and metal oxides nanoparticles: Current status. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 146, 70-83	6	122

44	ZnO and TiO <sub>2</sub> nanoparticles as novel antimicrobial agents for oral hygiene: a review. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	52
43	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> , <b>2015</b> , 125, 73-81	6	47
42	Comparative cytotoxicity of dolomite nanoparticles in human larynx HEp2 and liver HepG2 cells. <i>Journal of Applied Toxicology</i> , <b>2015</b> , 35, 640-50	4.1	6
41	Nitrate removal performance of <i>Diaphorobacter nitroreducens</i> using biodegradable plastics as the source of reducing power <b>2015</b> ,		3
40	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> , <b>2015</b> , 69, 101-108	3	17
39	CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. <i>Korean Chemical Engineering Research</i> , <b>2015</b> , 53, 565-569		6
38	Anti-biofilm and antibacterial activities of zinc oxide nanoparticles against the oral opportunistic pathogens <i>Rothia dentocariosa</i> and <i>Rothia mucilaginosa</i> . <i>European Journal of Oral Sciences</i> , <b>2014</b> , 122, 397-403	2.3	40
37	Antibacterial properties of silver nanoparticles synthesized using <i>Pulicaria glutinosa</i> plant extract as a green bioreductant. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 3551-65	7.3	47
36	Diversity of bacteria and polyketide synthase associated with marine sponge <i>Haliclona</i> sp.. <i>Annals of Microbiology</i> , <b>2014</b> , 64, 199-207	3.2	10
35	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 111, 211-7	6	40
34	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> , <b>2013</b> , 273, 289-97	4.6	39
33	Comparative effectiveness of NiCl <sub>2</sub> , Ni- and NiO-NPs in controlling oral bacterial growth and biofilm formation on oral surfaces. <i>Archives of Oral Biology</i> , <b>2013</b> , 58, 1804-11	2.8	32
32	Biocidal effect of copper and zinc oxide nanoparticles on human oral microbiome and biofilm formation. <i>Materials Letters</i> , <b>2013</b> , 97, 67-70	3.3	46
31	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> , <b>2012</b> , 27, 99-104	2.6	12
30	JBIR-56 and JBIR-57, 2(1H)-pyrazinones from a marine sponge-derived <i>Streptomyces</i> sp. SpD081030SC-03. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 1630-5	4.9	33
29	<i>Streptomyces</i> associated with a marine sponge <i>Haliclona</i> sp.; biosynthetic genes for secondary metabolites and products. <i>Environmental Microbiology</i> , <b>2011</b> , 13, 391-403	5.2	62
28	<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> , <b>2011</b> , 61, 947-950	2.2	14
27	Distribution of the 3-hydroxyl-3-methylglutaryl coenzyme A reductase gene and isoprenoid production in marine-derived Actinobacteria. <i>FEMS Microbiology Letters</i> , <b>2010</b> , 304, 89-96	2.9	29

26	JBIR-31, a new teleocidin analog, produced by salt-requiring <i>Streptomyces</i> sp. NBRC 105896 isolated from a marine sponge. <i>Journal of Antibiotics</i> , <b>2010</b> , 63, 33-6	3.7	36
25	JBIR-58, a new salicylamide derivative, isolated from a marine sponge-derived <i>Streptomyces</i> sp. SpD081030ME-02. <i>Journal of Antibiotics</i> , <b>2010</b> , 63, 267-9	3.7	23
24	JBIR-65, a new diterpene, isolated from a sponge-derived <i>Actinomadura</i> sp. SpB081030SC-15. <i>Journal of Antibiotics</i> , <b>2010</b> , 63, 401-3	3.7	24
23	JBIR-66, a new metabolite isolated from tunicate-derived <i>Saccharopolyspora</i> sp. SS081219JE-28. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 2355-7	2.1	13
22	Sponge-derived <i>Streptomyces</i> producing isoprenoids via the mevalonate pathway. <i>Journal of Natural Products</i> , <b>2010</b> , 73, 208-12	4.9	42
21	<i>Streptomyces tateyamensis</i> sp. nov., <i>Streptomyces marinus</i> sp. nov. and <i>Streptomyces haliclona</i> sp. nov., isolated from the marine sponge <i>Haliclona</i> sp. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2010</b> , 60, 2775-2779	2.2	37
20	<i>Paraoerskovia marina</i> gen. nov., sp. nov., an actinobacterium isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2009</b> , 59, 2094-8	2.2	19
19	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> , <b>2009</b> , 83, 127-33	5.7	14
18	New sesquiterpenes, JBIR-27 and -28, isolated from a tunicate-derived fungus, <i>Penicillium</i> sp. SS080624SCf1. <i>Journal of Antibiotics</i> , <b>2009</b> , 62, 247-50	3.7	35
17	JBIR-37 and -38, novel glycosyl benzenediols, isolated from the sponge-derived fungus, <i>Acremonium</i> sp. SpF080624G1f01. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 2138-40	2.1	20
16	<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> , <b>2008</b> , 58, 1670-4	2.2	12
15	<i>Paracoccus marinus</i> sp. nov., an adonixanthin diglucoside-producing bacterium isolated from coastal seawater in Tokyo Bay. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2008</b> , 58, 383-6	2.2	32
14	<i>Paraferrimonas sedimenticola</i> gen. nov., sp. nov., a marine bacterium of the family Ferrimonadaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 1493-1498 <sup>2.2</sup>		7
13	Emended descriptions of the genus <i>Lewinella</i> and of <i>Lewinella cohaerens</i> , <i>Lewinella nigricans</i> and <i>Lewinella persica</i> , and description of <i>Lewinella lutea</i> sp. nov. and <i>Lewinella marina</i> sp. nov. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 2946-2951	2.2	37
12	<i>Galbibacter mesophilus</i> gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 969-973	2.2	15
11	<i>Sediminibacter furfurosus</i> gen. nov., sp. nov. and <i>Gilvibacter sediminis</i> gen. nov., sp. nov., novel members of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 265-269	2.2	33
10	<i>Sedimitomix flava</i> gen. nov., sp. nov., of the phylum Bacteroidetes, isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 1689-1693	2.2	14
9	Activity and Community Composition of Denitrifying Bacteria in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-Using Solid-phase Denitrification Processes. <i>Microbes and Environments</i> , <b>2007</b> , 22, 20-31	2.6	40

8	Sandarakinotalea sediminis gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2006</b> , 56, 959-963	2.2	17
7	Krokinobacter gen. nov., with three novel species, in the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2006</b> , 56, 323-328	2.2	27
6	Sediminicola luteus gen. nov., sp. nov., a novel member of the family Flavobacteriaceae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2006</b> , 56, 841-845	2.2	16
5	Major carotenoid isolated from Paracoccus schoinia NBRC 100637T is adonixanthin diglucoside. <i>Journal of Natural Products</i> , <b>2006</b> , 69, 1823-5	4.9	7
4	Characterization of the Microbial Community and Culturable Denitrifying Bacteria in a Solid-phase Denitrification Process Using Poly( $\epsilon$ -caprolactone) as the Carbon and Energy Source. <i>Microbes and Environments</i> , <b>2005</b> , 20, 25-33	2.6	34
3	Application of polyhydroxyalkanoates for denitrification in water and wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , <b>2003</b> , 61, 103-9	5.7	130
2	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> , <b>2002</b> , 48, 299-308 <sup>1.5</sup>		72
1	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> , <b>2002</b> , 68, 3206-14	4.8	180