

Shams Tabrez Khan

List of Publications by Year in descending order

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80
papers

3,537
citations

101384

36
h-index

149479

56
g-index

83
all docs

83
docs citations

83
times ranked

4717
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. <i>Molecules</i> , 2021, 26, 39.	1.7	296
2	Zinc oxide nanoparticle-mediated changes in photosynthetic efficiency and antioxidant system of tomato plants. <i>Photosynthetica</i> , 2018, 56, 678-686.	0.9	221
3	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, 3206-3214.	1.4	205
4	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.	2.5	177
5	Application of polyhydroxyalkanoates for denitrification in water and wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 103-109.	1.7	152
6	Engineered nanomaterials for water decontamination and purification: From lab to products. <i>Journal of Hazardous Materials</i> , 2019, 363, 295-308.	6.5	147
7	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. <i>Dalton Transactions</i> , 2018, 47, 11988-12010.	1.6	97
8	<i>Streptomyces</i> associated with a marine sponge <i>Haliclona</i> sp.; biosynthetic genes for secondary metabolites and products. <i>Environmental Microbiology</i> , 2011, 13, 391-403.	1.8	93
9	<i>Diaphorobacter nitroreducens</i> 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.	0.4	87
10	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , 2020, 5, 1987-1996.	1.6	71
11	ZnO and TiO ₂ nanoparticles as novel antimicrobial agents for oral hygiene: a review. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	70
12	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> , 2007, 57, 2946-2951.	0.8	69
13	Thymol and carvacrol induce autolysis, stress, growth inhibition and reduce the biofilm formation by <i>Streptococcus mutans</i> . <i>AMB Express</i> , 2017, 7, 49.	1.4	68
14	Biocidal effect of copper and zinc oxide nanoparticles on human oral microbiome and biofilm formation. <i>Materials Letters</i> , 2013, 97, 67-70.	1.3	59
15	Anti-biofilm and antibacterial activities of zinc oxide nanoparticles against the oral opportunistic pathogens <i>Streptococcus dentocariosa</i> and <i>Streptococcus mucilaginosus</i> . <i>European Journal of Oral Sciences</i> , 2014, 122, 397-403.	0.7	56
16	Antibacterial properties of silver nanoparticles synthesized using <i>Pulicaria glutinosa</i> plant extract as a green bioreductant. <i>International Journal of Nanomedicine</i> , 2014, 9, 3551.	3.3	55
17	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G ₂ /M arrest, and DNA damage in mouse skin fibroblast cells (L929). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 73-81.	2.5	55
18	<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> , 2010, 60, 2775-2779.	0.8	52

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19	Sediminibacter furfurosus gen. nov., sp. nov. and Gilvibacter sediminis gen. nov., sp. nov., novel members of the family Flavobacteriaceae. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 265-269.	0.8	50
20	Activity and Community Composition of Denitrifying Bacteria in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-Using Solid-phase Denitrification Processes. Microbes and Environments, 2007, 22, 20-31.	0.7	48
21	Effective inhibition of bacterial respiration and growth by CuO microspheres composed of thin nanosheets. Colloids and Surfaces B: Biointerfaces, 2013, 111, 211-217.	2.5	48
22	Chemical diversity in leaf and stem essential oils of Origanum vulgare L. and their effects on microbicidal activities. AMB Express, 2019, 9, 176.	1.4	48
23	Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. Toxicology and Applied Pharmacology, 2013, 273, 289-297.	1.3	47
24	Differential cytotoxicity of copper ferrite nanoparticles in different human cells. Journal of Applied Toxicology, 2016, 36, 1284-1293.	1.4	47
25	The composition of the essential oil and aqueous distillate of Origanum vulgare L. growing in Saudi Arabia and evaluation of their antibacterial activity. Arabian Journal of Chemistry, 2018, 11, 1189-1200.	2.3	46
26	Novel pyrazolyl-s-triazine derivatives, molecular structure and antimicrobial activity. Journal of Molecular Structure, 2017, 1145, 244-253.	1.8	45
27	Sponge-Derived <i>Streptomyces</i> Producing Isoprenoids via the Mevalonate Pathway. Journal of Natural Products, 2010, 73, 208-212.	1.5	44
28	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. RSC Advances, 2016, 6, 26111-26120.	1.7	43
29	Paracoccus marinus sp. nov., an adonixanthin diglucoside-producing bacterium isolated from coastal seawater in Tokyo Bay. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 383-386.	0.8	41
30	New sesquiterpenes, JBIR-27 and -28, isolated from a tunicate-derived fungus, Penicillium sp. SS080624SCf1. Journal of Antibiotics, 2009, 62, 247-250.	1.0	40
31	Miswak-Based Green Synthesis of Silver Nanoparticles: Evaluation and Comparison of Their Microbicidal Activities with the Chemical Synthesis. Molecules, 2016, 21, 1478.	1.7	40
32	Krokinobacter gen. nov., with three novel species, in the family Flavobacteriaceae. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 323-328.	0.8	39
33	Zinc oxide and titanium dioxide nanoparticles induce oxidative stress, inhibit growth, and attenuate biofilm formation activity of Streptococcus mitis. Journal of Biological Inorganic Chemistry, 2016, 21, 295-303.	1.1	39
34	JBIR-31, a new teleocidin analog, produced by salt-requiring Streptomyces sp. NBRC 105896 isolated from a marine sponge. Journal of Antibiotics, 2010, 63, 33-36.	1.0	38
35	Comparative effectiveness of NiCl ₂ , Ni- and NiO-NPs in controlling oral bacterial growth and biofilm formation on oral surfaces. Archives of Oral Biology, 2013, 58, 1804-1811.	0.8	38
36	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. Microbes and Environments, 2005, 20, 25-33.	0.7	37

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37	JBIR-56 and JBIR-57, 2(1 <i>H</i>)-Pyrazinones from a Marine Sponge-Derived <i>Streptomyces</i> sp. SpD081030SC-03. <i>Journal of Natural Products</i> , 2011, 74, 1630-1635.	1.5	37
38	Engineered Nanomaterials in Soil: Their Impact on Soil Microbiome and Plant Health. <i>Plants</i> , 2022, 11, 109.	1.6	35
39	JBIR-65, a new diterpene, isolated from a sponge-derived <i>Actinomadura</i> sp. SpB081030SC-15. <i>Journal of Antibiotics</i> , 2010, 63, 401-403.	1.0	31
40	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.	0.7	30
41	<i>Paraoskovia marina</i> gen. nov., sp. nov., an actinobacterium isolated from marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 2094-2098.	0.8	28
42	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.	3.2	28
43	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.	3.9	27
44	<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.	0.8	26
45	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, 267-269.	1.0	26
46	<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.	0.8	26
47	<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.	0.8	24
48	<i>Sediminicola 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.	0.8	23
49	<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.	0.8	23
50	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, 2138-2140.	0.6	22
51	Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO ₂ nanoparticles in A549 cells. <i>Human and Experimental Toxicology</i> , 2018, 37, 496-507.	1.1	21
52	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.	1.7	21
53	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.	1.3	20
54	<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, 1670-1674.	0.8	19

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55	Antibiotic and Antibiofilm Activities of <i>Salvadora persica</i> L. Essential Oils against <i>Streptococcus mutans</i> : A Detailed Comparative Study with Chlorhexidine Digluconate. <i>Pathogens</i> , 2020, 9, 66.	1.2	18
56	JBIR-66, a New Metabolite Isolated from Tunicate-Derived <i>Saccharopolysporasp.</i> SS081219JE-28. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2355-2357.	0.6	16
57	Discovery of a pimarinin 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, 127-133.	1.7	15
58	<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.	0.8	14
59	Diversity of bacteria and polyketide synthase associated with marine sponge <i>Haliclona</i> sp.. <i>Annals of Microbiology</i> , 2014, 64, 199-207.	1.1	14
60	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.	1.5	14
61	Microbial communities and their predictive functional profiles in the arid soil of Saudi Arabia. <i>Soil</i> , 2020, 6, 513-521.	2.2	14
62	Major Carotenoid Isolated from <i>Paracoccus schoinia</i> NBRC 100637T Is Adonixanthin Diglucoside. <i>Journal of Natural Products</i> , 2006, 69, 1823-1825.	1.5	13
63	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.	0.7	13
64	Synthesis and characterization of some abundant nanoparticles, their antimicrobial and enzyme inhibition activity. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2017, 64, 203-216.	0.4	13
65	Functionalization of anti- <i>Brucella</i> antibody on ZnO-NPs and their deposition on aluminum sheet towards developing a sensor for the detection of <i>Brucella</i> . <i>Vacuum</i> , 2017, 146, 592-598.	1.6	11
66	Spectral and thermal properties of novel eye lens β -crystallin. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 1052-1058.	3.6	11
67	Antibiofilm activity of synthesized electrospun core-shell nanofiber composites of PLA and PVA with silver nanoparticles. <i>Materials Research Express</i> , 2018, 5, 095001.	0.8	11
68	MWCNTs functionalization and immobilization with anti- <i>Brucella</i> antibody; towards the development of a nanosensor. <i>Vacuum</i> , 2017, 146, 623-632.	1.6	9
69	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.	1.1	9
70	Comparative cytotoxicity of dolomite nanoparticles in human larynx HEP2 and liver HepG2 cells. <i>Journal of Applied Toxicology</i> , 2015, 35, 640-650.	1.4	8
71	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.	0.2	8
72	Metals and Metal Oxides: Important Nanomaterials With Antimicrobial Activity. , 2017, , 195-222.		7

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73	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.	0.2	7
74	Nitrate removal performance of <i>Diaphorobacter nitroreducens</i> using biodegradable plastics as the source of reducing power. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	6
75	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.	1.2	6
76	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.	0.4	6
77	An improved method of DNA preparation for PCR-based detection of <i>Brucella</i> in raw camel milk samples from Riyadh region and its comparison with immunological methods. <i>Journal of Food Safety</i> , 2018, 38, e12381.	1.1	5
78	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.	0.9	3
79	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.	0.1	3
80	Bacterial Community Structure in Anaerobic Digesters of a Full Scale Municipal Wastewater Treatment Plant – Case Study of Dubai, United Arab Emirates. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 0, , .	0.9	3