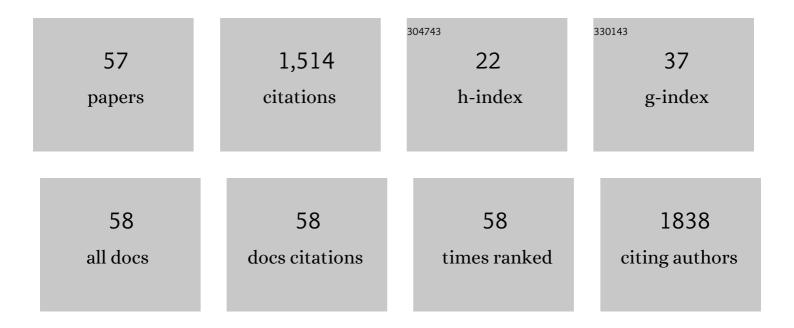
Sumit Kumar

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2866925/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Metagenomic insights into the environmental adaptation and metabolism of <i>Candidatus</i> Haloplasmatales, one archaeal order thriving in saline lakes. Environmental Microbiology, 2022, 24, 2239-2258.	3.8	9
2	Rhabdonatronobacter sediminivivens gen. nov., sp. nov. isolated from the sediment of Hutong Qagan Soda Lake. Archives of Microbiology, 2022, 204, 145.	2.2	2
3	Aliidiomarina halalkaliphila sp. nov., a haloalkaliphilic bacterium isolated from a soda lake in Inner Mongolia Autonomous Region, China. International Journal of Systematic and Evolutionary Microbiology, 2022, 72, .	1.7	5
4	How does the addition of shape distinct gold nanoparticles influence on the conformational transition of poly(N-isopropylacrylamide)?. Journal of Colloid and Interface Science, 2021, 582, 478-487.	9.4	10
5	Understanding the close encounter of heme proteins with carboxylated multiwalled carbon nanotubes: a case study of contradictory stability trend for hemoglobin and myoglobin. Physical Chemistry Chemical Physics, 2021, 23, 19740-19751.	2.8	3
6	Recovery and purification of industrial enzymes. , 2021, , 59-75.		0
7	Ionic Liquid-Modified Gold Nanoparticles for Enhancing Antimicrobial Activity and Thermal Stability of Enzymes. ACS Applied Nano Materials, 2021, 4, 3185-3196.	5.0	23
8	Bread waste to lactic acid: Applicability of simultaneous saccharification and solid state fermentation. Biocatalysis and Agricultural Biotechnology, 2021, 32, 101934.	3.1	12
9	Antimicrobial resistance in biofilms: Exploring marine actinobacteria as a potential source of antibiotics and biofilm inhibitors. Biotechnology Reports (Amsterdam, Netherlands), 2021, 30, e00613.	4.4	38
10	Biophysical study on the phase transition behaviour of biocompatible thermoresponsive polymer influenced by tryptophan-based amino acid ionic liquids. Polymer, 2021, 228, 123871.	3.8	2
11	Cellular adaptation responses in a halotolerant Exiguobacterium exhibiting organic solvent tolerance with simultaneous protease production. Environmental Technology and Innovation, 2021, 23, 101803.	6.1	7
12	The biocompatible validity of amino acid ionic liquid mediated gold nanoparticles for enhanced activity and structural stability of papain. Dalton Transactions, 2021, 50, 10455-10470.	3.3	4
13	Development of whole-cell catalyst system for sulfide biotreatment based on the engineered haloalkaliphilic bacterium. AMB Express, 2021, 11, 142.	3.0	1
14	A simple downstream processing protocol for the recovery of lactic acid from the fermentation broth. Bioresource Technology, 2020, 318, 124260.	9.6	33
15	Protein packaging in ionic liquid mixtures: an ecofriendly approach towards the improved stability of β-lactoglobulin in cholinium-based mixed ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 14811-14821.	2.8	20
16	Biocompatibility of surface-modified gold nanoparticles towards red blood cells and haemoglobin. Applied Surface Science, 2020, 512, 145573.	6.1	33
17	How does cholinium cation surpass tetraethylammonium cation in amino acid-based ionic liquids for thermal and structural stability of serum albumins?. International Journal of Biological Macromolecules, 2020, 148, 615-626.	7.5	20
18	Insights into the metabolism pathway and functional genes of long-chain aliphatic alkane degradation in haloarchaea. Extremophiles, 2020, 24, 475-483.	2.3	11

SUMIT KUMAR

#	Article	IF	CITATIONS
19	Sustainable Management of Solid Waste. , 2019, , 79-99.		11
20	Microbial Diversity of Saline Habitats: An Overview of Biotechnological Applications. Soil Biology, 2019, , 65-92.	0.8	6
21	Vibrational Relaxation Lifetime of a Physisorbed Molecule at a Metal Surface. Physical Review Letters, 2019, 123, 156101.	7.8	20
22	Thermozymes: Adaptive strategies and tools for their biotechnological applications. Bioresource Technology, 2019, 278, 372-382.	9.6	79
23	A critical review of organic manure biorefinery models toward sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives. Renewable and Sustainable Energy Reviews, 2019, 111, 115-131.	16.4	177
24	Observation of the adsorption and desorption of vibrationally excited molecules on a metal surface. Nature Chemistry, 2018, 10, 592-598.	13.6	70
25	Interplay among Electrostatic, Dispersion, and Steric Interactions: Spectroscopy and Quantum Chemical Calculations of Ï€â€Hydrogen Bonded Complexes. ChemPhysChem, 2017, 18, 828-838.	2.1	7
26	Isolation and complete genome sequence of Halorientalis hydrocarbonoclasticus sp. nov., a hydrocarbon-degrading haloarchaeon. Extremophiles, 2017, 21, 1081-1090.	2.3	23
27	Development of the first gene expression system for Salinicoccus strains with potential application in bioremediation of hypersaline wastewaters. Applied Microbiology and Biotechnology, 2017, 101, 7249-7258.	3.6	3
28	Biodegradation of 1,1,1-trichloro-2,2- <i>bis</i> (4-chlorophenyl) ethane (DDT) by using <i>Serratia marcescens</i> NCIM 2919. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2016, 51, 809-816.	1.5	19
29	â€~Naked-eye' colorimetric/fluorimetric detection of F ^{â^'} ions by biologically active 3-((1H-indol-3-yl)methyl)-4-hydroxy-2H-chromen-2-one derivatives. RSC Advances, 2016, 6, 108105-108112.	3.6	17
30	Structural elucidation and molecular characterization of <i>Marinobacter</i> sp. α-amylase. Preparative Biochemistry and Biotechnology, 2016, 46, 238-246.	1.9	10
31	Halophiles as a source of polyextremophilic α-amylase for industrial applications. AIMS Microbiology, 2016, 2, 1-26.	2.2	25
32	Chloride Activated Halophilic <i>α</i> -Amylase from <i>Marinobacter</i> sp. EMB8: Production Optimization and Nanoimmobilization for Efficient Starch Hydrolysis. Enzyme Research, 2015, 2015, 1-9.	1.8	20
33	Microbial mineralization of struvite: A promising process to overcome phosphate sequestering crisis. Water Research, 2014, 54, 33-43.	11.3	74
34	Structure of saligenin: microwave, UV and IR spectroscopy studies in a supersonic jet combined with quantum chemistry calculations. Physical Chemistry Chemical Physics, 2014, 16, 17163.	2.8	20
35	Competition between n → πAr* and conventional hydrogen bonding (N–H⋯N) interactions: an ab initio study of the complexes of 7-azaindole and fluorosubstituted pyridines. Physical Chemistry Chemical Physics, 2014, 16, 8819-8827.	2.8	43
36	Observation of exclusively π-stacked heterodimer of indole and hexafluorobenzene in the gas phase. Journal of Chemical Physics, 2013, 139, 104311.	3.0	22

SUMIT KUMAR

#	Article	IF	CITATIONS
37	Biochemical Basis of Mercury Remediation and Bioaccumulation by Enterobacter sp. EMB21. Applied Biochemistry and Biotechnology, 2013, 169, 256-267.	2.9	12
38	Differential permeation of piroxicam-loaded PLGA micro/nanoparticles and their in vitro enhancement. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	6
39	Nonâ€ionic Dendronized Multiamphiphilic Polymers as Nanocarriers for Biomedical Applications. Small, 2013, 9, 894-904.	10.0	39
40	Polishing of Copper Alloy Using Double Disk Ultrasonic Assisted Magnetic Abrasive Polishing. Materials and Manufacturing Processes, 2013, 28, 200-206.	4.7	36
41	A bifunctional nanocarrier based on amphiphilic hyperbranched polyglycerol derivatives. Journal of Materials Chemistry B, 2013, 1, 3569.	5.8	50
42	Mimicking trimeric interactions in the aromatic side chains of the proteins: A gas phase study of indole…(pyrrole)2 heterotrimer. Journal of Chemical Physics, 2012, 136, 174302.	3.0	25
43	Screening and isolation of halophilic bacteria producing industrially important enzymes. Brazilian Journal of Microbiology, 2012, 43, 1595-1603.	2.0	111
44	Halophilic Microorganisms as Sources of Novel Enzymes. , 2012, , 555-579.		15
45	Structure of Indole···Imidazole Heterodimer in a Supersonic Jet: A Gas Phase Study on the Interaction between the Aromatic Side Chains of Tryptophan and Histidine Residues in Proteins. Journal of Physical Chemistry A, 2012, 116, 11573-11580.	2.5	29
46	Ï€-Hydrogen Bonding Wins over Conventional Hydrogen Bonding Interaction: A Jet-Cooled Study of Indole···Furan Heterodimer. Journal of Physical Chemistry A, 2012, 116, 1368-1374.	2.5	47
47	Effect of acceptor heteroatoms on ï€-hydrogen bonding interactions: A study of indoleâ‹â‹â‹thiophene heterodimer in a supersonic jet. Journal of Chemical Physics, 2012, 137, 094309.	3.0	26
48	Purification and characterization of maltooligosaccharide-forming α-amylase from moderately halophilic Marinobacter sp. EMB8. Bioresource Technology, 2012, 116, 247-251.	9.6	68
49	Screening and isolation of halophilic bacteria producing industrially important enzymes. Brazilian Journal of Microbiology, 2012, 43, 1595-603.	2.0	40
50	Competition between Hydrogen Bonding and Dispersion Interactions in the Indole···Pyridine Dimer and (Indole)2···Pyridine Trimer Studied in a Supersonic Jet. Journal of Physical Chemistry A, 2011, 115, 7461-7472.	2.5	40
51	Structure of 7-Azaindole···2-Fluoropyridine Dimer in a Supersonic Jet: Competition between N–H···N and N–H···F Interactions. Journal of Physical Chemistry A, 2011, 115, 10299-10308.	2.5	24
52	Synthesis of Biodegradable Amphiphilic Nanocarriers by Chemo-Enzymatic Transformations for the Solubilization of Hydrophobic Compounds. International Journal of Artificial Organs, 2011, 34, 84-92.	1.4	10
53	Synthesis, structural, spectral, thermal and antimicrobial studies of palladium(II), platinum(II), ruthenium(III) and iridium(III) complexes derived from N,N,N,N-tetradentate macrocyclic ligand. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1507-1514.	3.9	12
54	Lanthanide complexes derived from hexadentate macrocyclic ligand: Synthesis, spectroscopic and thermal investigation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 835-840.	3.9	9

#	Article	IF	CITATIONS
55	Synthesis of NNNN Tetradentate Macrocyclic Ligand and its Pd(II), Pt(II), Ru(III), and Ir(III) Complexes: Spectroscopic, Thermal, and Antimicrobial Studies. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2010, 40, 940-946.	0.6	3
56	Selective recognition of Ca2+ ions using novel polymeric phenols. Microchemical Journal, 2008, 90, 89-92.	4.5	10
57	Influence of EDA-? interactions in drug encapsulation using nanospheres. Chemical Communications, 2004, , 2689.	4.1	23