Akhilesh Kumar Singh

List of Publications by Year
in descending order

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Version: 2024-02-01

70	1,822	489802 18	325983 40
papers	citations	h-index	g-index

74	74	74	2472
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Asparagus racemosus leaf extract mediated bioconversion of nickel sulfate into nickel/nickel hydroxide nanoparticles: in vitro catalytic, antibacterial, and antioxidant activities. Biomass Conversion and Biorefinery, 2024, 14, 6865-6885.	2.9	3
2	Conversion of methane to methanol: technologies and future challenges. Biomass Conversion and Biorefinery, 2022, 12, 1851-1875.	2.9	30
3	Band gap tuning of ferroelectric PbTiO3 by Mo doping. Journal of Materials Science: Materials in Electronics, 2022, 33, 2550-2565.	1.1	4
4	Quenching of spin-orbit coupling and signature of Griffiths Phase in nanocrystalline La0.6Ba0.4MnO3 perovskite manganite. Journal of Solid State Chemistry, 2022, 309, 122986.	1.4	12
5	Sustainable utilization of pineapple wastes for production of bioenergy, biochemicals and value-added products: A review. Bioresource Technology, 2022, 351, 127085.	4.8	44
6	Lignocellulosic waste biomass for biohydrogen production: future challenges and bioâ€economic perspectives. Biofuels, Bioproducts and Biorefining, 2022, 16, 838-858.	1.9	18
7	Convolvulus pluricaulis (Shankhpushpi) and Erythroxylum coca (Coca plant). , 2022, , 83-94.		1
8	Evaluation of Arthrocentesis with and Without Platelet-Rich Plasma in the Management of Internal Derangement of Temporomandibular Joint: A Randomized Controlled Trial. Journal of Maxillofacial and Oral Surgery, 2021, 20, 252-257.	0.6	9
9	Nanobiotechnology. , 2021, , .		8
10	Functions of Hydrogen Sulfide in Plant Regulation and Response to Abiotic Stress. , 2021, , 329-355.		7
11	Plant Stress Hormones Nanobiotechnology. , 2021, , 349-373.		9
12	Involvement of membrane transporters in drought tolerance. , 2021, , 383-399.		2
13	Adverse Environment and Pest Management for Sustainable Plant Production. , 2021, , 535-557.		0
14	Plant Performance and Defensive Role of Glycine Betaine Under Environmental Stress. , 2021, , 225-248.		11
15	Biofertilizers-Mediated Sustainable Plant Growth and Production Under Adverse Environmental Conditions. , 2021, , 437-457.		0
16	Nanosize Carriers for Drug and Vaccine Delivery: Advances and Challenges. Nanoscience and Nanotechnology - Asia, 2021, 11, .	0.3	0
17	Plant Stress Enzymes Nanobiotechnology. , 2021, , 327-348.		8
18	Applications of Nanobiotechnology in Overcoming Temperature Stress. , 2021, , 417-435.		5

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19	In-vitro catalytic, antimicrobial and antioxidant activities of bioengineered copper quantum dots using Mangifera indica (L.) leaf extract. Materials Chemistry and Physics, 2020, 239, 122052.	2.0	39
20	Extranodal diffuse large B cell Non-Hodgkinâ€™s lymphoma of maxilla: An immunohistochemical study based diagnostic approach. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2020, 32, 167-170.	0.2	1
21	Investigation of new magnetoelastic and magnetic transitions accompanied with magnetoelectric coupling in $oldsymbol {{m 0.1BiFeO_{3}{{m mbox{–}}}0.9Sr(Fe_{0.5}Nb_{0.5})O_{3}}}$ multiferroic. Journal of Physics Condensed Matter, 2020, 32, 105401.	0.7	0
22	Processes and characterization for biobased polymers from polyhydroxyalkanoates. , 2020, , 117-149.		1
23	The role of renewable chemicals and biofuels in building a bioeconomy. Biofuels, Bioproducts and Biorefining, 2020, 14, 830-844.	1.9	96
24	A cutting-edge immunoinformatics approach for design of multi-epitope oral vaccine against dreadful human malaria. International Journal of Biological Macromolecules, 2020, 158, 159-179.	3.6	21
25	Recent insights on solubility and stability of biomolecules in ionic liquid. , 2020, , 223-238.		0
26	Designing of precise vaccine construct against visceral leishmaniasis through predicted epitope ensemble: A contemporary approach. Computational Biology and Chemistry, 2020, 86, 107259.	1.1	13
27	Evolution of porous structure on Alâ€“Cuâ€“Fe quasicrystalline alloy surface and its catalytic activities. Journal of Alloys and Compounds, 2020, 834, 155162.	2.8	14
28	Improving futuristic nanomaterial researches in forestry sector: an overview. , 2020, , 505-518.		5
29	Nanoparticles and Plant Interaction with Respect to Stress Response. Nanotechnology in the Life Sciences, 2020, , 1-15.	0.4	13
30	Nanotechnology as Potential and Innovative Platform Toward Wastewater Treatment: An Overview. Nanotechnology in the Life Sciences, 2020, , 201-220.	0.4	4
31	Recent Trends and Advancement Toward Phyto-mediated Fabrication of Noble Metallic Nanomaterials: Focus on Silver, Gold, Platinum, and Palladium. Nanotechnology in the Life Sciences, 2020, , 87-105.	0.4	6
32	Effect of Drought Stress on Crop Production. , 2020, , 35-47.		29
33	Technological Routes for Biogas Production: Current Status and Future Perspectives. , 2020, , 3-17.		0
34	Impacts of Soil Pollution on Human Health with Special Reference to Human Physiognomy and Physiology. , 2020, , 163-177.		0
35	Contributions of Fingerprinting Food in the Detection of Food Adulterants. , 2020, , 180-203.		0
36	Investigation of structural and magnetic properties of Nd0.7Ba0.3Mn1-xTixO3 (xâ€¯=â€¯0.05, 0.15 and 0.25) manganites synthesized through a single-step process. Journal of Magnetism and Magnetic Materials, 2019, 469, 264-273.	1.0	34

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37	Genome based screening of epitope ensemble vaccine candidates against dreadful visceral leishmaniasis using immunoinformatics approach. Microbial Pathogenesis, 2019, 136, 103704.	1.3	18
38	Can sugarcane cope with increasing atmospheric CO2 concentration?. Australian Journal of Crop Science, 2019, , 780-784.	0.1	7
39	Nanonetwork of Coordination Polymer AHMT-Ag for the Effective and Broad Spectrum Detection of 6-Mercaptopurine in Urine and Blood Serum. ACS Omega, 2019, 4, 16733-16742.	1.6	8
40	Room temperature crystal structure and high temperature structural and magnetic phase transitions in Sr(Fe0.5Nb0.5)O3 ceramic. Journal of Applied Physics, 2019, 125, 174102.	1.1	3
41	Biomedical applications of microbially engineered polyhydroxyalkanoates: an insight into recent advances, bottlenecks, and solutions. Applied Microbiology and Biotechnology, 2019, 103, 2007-2032.	1.7	93
42	Nanoparticles Mediated Gene Knockout Through miRNA Replacement. , 2019, , 469-497.		5
43	Engineering Nanomaterials for Smart Drug Release. , 2019, , 411-449.		25
44	Exploitation of reverse vaccinology and immunoinformatics as promising platform for genome-wide screening of new effective vaccine candidates against Plasmodium falciparum. BMC Bioinformatics, 2019, 19, 468.	1.2	25
45	Green synthesis, characterization and antimicrobial activity of zinc oxide quantum dots using Eclipta alba. Materials Chemistry and Physics, 2018, 203, 40-48.	2.0	95
46	The path forward for lignocellulose biorefineries: Bottlenecks, solutions, and perspective on commercialization. Bioresource Technology, 2018, 264, 370-381.	4.8	420
47	Microbially Originated Polyhydroxyalkanoate (PHA) Biopolymers: An Insight into the Molecular Mechanism and Biogenesis of PHA Granules. , 2018, , 355-398.		7
48	Biotechnological Advances in Lignocellulosic Ethanol Production. , 2018, , 57-82.		2
49	Advances in cyanobacterial polyhydroxyalkanoates production. FEMS Microbiology Letters, 2017, 364, .	0.7	70
50	Progress and challenges in producing polyhydroxyalkanoate biopolymers from cyanobacteria. Journal of Applied Phycology, 2017, 29, 1213-1232.	1.5	93
51	Progress and Challenges in Microalgal Biodiesel Production. Frontiers in Microbiology, 2016, 7, 1019.	1.5	104
52	Biodegradable Polyhydroxyalkanoate Thermoplastics Substituting Xenobiotic Plastics: A Way Forward for Sustainable Environment. , 2016, , 317-346.		7
53	Pleomorphic adenoma involving soft tissue overlying the anterior border of ramus of the mandible: A rare ectopic presentation. Journal of Oral Biology and Craniofacial Research, 2016, 6, S62-S64.	0.8	5
54	Adenoid cystic carcinoma of the floor of the mouth â€“ A rare presentation. Journal of Oral Biology and Craniofacial Research, 2016, 6, S65-S69.	0.8	4

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55	<i>Pseudomonas aeruginosa</i> MTCC 7925 as a Biofactory for Production of the Novel SCL-LCL-PHA Thermoplastic from Non-Edible Oils. Current Biotechnology, 2015, 4, 65-74.	0.2	12
56	Commercialization of Bacterial Cell Factories for the Sustainable Production of Polyhydroxyalkanoate Thermoplastics: Progress and Prospects. Recent Patents on Biotechnology, 2015, 9, 4-21.	0.4	18
57	Karapandzic Flap in Reconstruction of Post-traumatic Lower Lip Defects: Report of Two Cases. Journal of Maxillofacial and Oral Surgery, 2015, 14, 858-861.	0.6	4
58	Pleomorphic adenoma involving minor salivary glands of upper lip: A rare phenomenon. Journal of Cancer Research and Therapeutics, 2015, 11, 1025.	0.3	10
59	Exploitation of a Local Isolate, Brevibacillus Invocatus MTCC 9039 for Production of Poly(3-hydroxybutyrate-co-3- hydroxyvalerate) co-polymer. Indo Global Journal of Pharmaceutical Sciences, 2014, 04, .	0.3	0
60	Production of a Novel Short-Chain-Length-Long-Chain-Length Polyhydroxyalkanoate Co-Polymer by Pseudomonas Aeruginosa MTCC 7925 from Various Carbon Substrates. Indo Global Journal of Pharmaceutical Sciences, 2014, 04, .	0.3	0
61	Resurgence of tuberculosis: a rare case of primary orbitomaxillary tuberculoma. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2013, 116, e27-e31.	0.2	2
62	Pseudomonas aeruginosa MTCC 7925: Producer of a Novel SCL-LCLPHA Co-Polymer. Current Biotechnology, 2013, 2, 81-88.	0.2	6
63	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) co-polymer production from a local isolate, Brevibacillus invocatus MTCC 9039. Bioresource Technology, 2010, 101, 1947-1953.	4.8	48
64	Exploitation of inexpensive substrates for production of a novel SCLâ€“LCL-PHA co-polymer by Pseudomonas aeruginosa MTCC 7925. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 347-354.	1.4	48
65	SCLâ€ŁCLâ€PHA copolymer production by a local isolate, Pseudomonas aeruginosa MTCC 7925. Biotechnology Journal, 2009, 4, 703-711.	1.8	18
66	Enhanced production of SCL-LCL-PHA co-polymer by sludge-isolated Pseudomonas aeruginosa MTCC 7925. Letters in Applied Microbiology, 2008, 46, 350-357.	1.0	53
67	Poly-Î²-hydroxybutyrate accumulation in Nostoc muscorum: Effects of metabolic inhibitors. Journal of Plant Physiology, 2007, 164, 312-317.	1.6	23
68	Process optimization for poly-Î²-hydroxybutyrate production in a nitrogen fixing cyanobacterium, Nostoc muscorum using response surface methodology. Bioresource Technology, 2007, 98, 987-993.	4.8	78
69	Studies on poly-Î²-hydroxybutyrate synthase activity of Nostoc muscorum. Journal of General and Applied Microbiology, 2006, 52, 209-214.	0.4	8
70	Antioxidative role of nitric oxide on copper toxicity to a chlorophycean alga, Chlorella. Ecotoxicology and Environmental Safety, 2004, 59, 223-227.	2.9	52