

Om V Singh

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.

98
papers

3,411
citations

23
h-index

58
g-index

109
ext. papers

3,730
ext. citations

3.8
avg, IF

5.46
L-index

#	Paper	IF	Citations
98	Polycyclic aromatic hydrocarbons: environmental pollution and bioremediation. <i>Trends in Biotechnology</i> , 2002 , 20, 243-8	15.1	828
97	Bioconversion of lignocellulosic biomass: biochemical and molecular perspectives. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 377-391	4.2	817
96	Sugarcane bagasse and leaves: foreseeable biomass of biofuel and bio-products. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 11-20	3.5	219
95	Detoxification of Lignocellulose Hydrolysates: Biochemical and Metabolic Engineering Toward White Biotechnology. <i>Bioenergy Research</i> , 2013 , 6, 388-401	3.1	144
94	Weedy lignocellulosic feedstock and microbial metabolic engineering: advancing the generation of 'Biofuel'. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1289-303	5.7	125
93	Biotechnological production of gluconic acid: future implications. <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 713-22	5.7	122
92	Radiation-resistant extremophiles and their potential in biotechnology and therapeutics. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 993-1004	5.7	90
91	Bioremediation: a genuine technology to remediate radionuclides from the environment. <i>Microbial Biotechnology</i> , 2013 , 6, 349-60	6.3	81
90	Bioconversion of novel substrate <i>Saccharum spontaneum</i> , a weedy material, into ethanol by <i>Pichia stipitis</i> NCIM3498. <i>Bioresource Technology</i> , 2011 , 102, 1709-14	11	64
89	Proteomics and metabolomics: the molecular make-up of toxic aromatic pollutant bioremediation. <i>Proteomics</i> , 2006 , 6, 5481-92	4.8	64
88	Genetically modified crops: success, safety assessment, and public concern. <i>Applied Microbiology and Biotechnology</i> , 2006 , 71, 598-607	5.7	60
87	Transcriptomics, proteomics and interactomics: unique approaches to track the insights of bioremediation. <i>Briefings in Functional Genomics & Proteomics</i> , 2006 , 4, 355-62		56
86	Chemical rescue of deltaF508-CFTR mimics genetic repair in cystic fibrosis bronchial epithelial cells. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 1099-110	7.6	50
85	Pharmacoproteomics of 4-phenylbutyrate-treated IB3-1 cystic fibrosis bronchial epithelial cells. <i>Journal of Proteome Research</i> , 2006 , 5, 562-71	5.6	45
84	Ultra-structural mapping of sugarcane bagasse after oxalic acid fiber expansion (OAFEX) and ethanol production by <i>Candida shehatae</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2013 , 6, 4	7.8	43
83	Key drivers influencing the commercialization of ethanol-based biorefineries. <i>Journal of Commercial Biotechnology</i> , 2010 , 16, 239-257	2	42
82	Bioconversion of <i>Saccharum spontaneum</i> (wild sugarcane) hemicellulosic hydrolysate into ethanol by mono and co-cultures of <i>Pichia stipitis</i> NCIM3498 and thermotolerant <i>Saccharomyces cerevisiae</i> -VS. <i>New Biotechnology</i> , 2011 , 28, 593-9	6.4	38

81	Proteome of synaptosome-associated proteins in spinal cord dorsal horn after peripheral nerve injury. <i>Proteomics</i> , 2009 , 9, 1241-53	4.8	38
80	Gluconic acid production under varying fermentation conditions by <i>Aspergillus niger</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 208-212	3.5	34
79	A New Route to 2-Aryl-4-quinolones via Thallium(III) p-Tolylsulphonate Mediated Oxidation of 2-Aryl-1,2,3,4-tetrahydro-4-quinolones. <i>Synthetic Communications</i> , 1993 , 23, 277-283	1.7	27
78	Bioremediation of radionuclides: emerging technologies. <i>OMICS A Journal of Integrative Biology</i> , 2007 , 11, 295-304	3.8	25
77	Antibiotrophs: The complexity of antibiotic-subsisting and antibiotic-resistant microorganisms. <i>Critical Reviews in Microbiology</i> , 2016 , 42, 17-30	7.8	23
76	Oxidative 1,2-aryl rearrangement in flavanones using thallium(III) -tolylsulphonate (TTS)= A new useful route to isoflavones. <i>Tetrahedron Letters</i> , 1990 , 31, 2747-2750	2	23
75	Extremophiles as sources of inorganic bio-nanoparticles. <i>World Journal of Microbiology and Biotechnology</i> , 2016 , 32, 156	4.4	23
74	Dehydrogenation of flavanones to flavones using thallium(III) acetate(TTA). <i>Tetrahedron Letters</i> , 1990 , 31, 1459-1462	2	22
73	Oxidation of 2-Aryl-1,2,3,4-tetrahydro-4-quinolones: A Novel Entry for the Synthesis of 2- and 3-Arylquinoline Alkaloids. <i>Synlett</i> , 1992 , 1992, 751-752	2.2	19
72	Biotechnological Applications of Hemicellulosic Derived Sugars: State-of-the-Art 2010 , 63-81		18
71	Proteomics: a strategy to understand the novel targets in protein misfolding and cancer therapy. <i>Expert Review of Proteomics</i> , 2010 , 7, 613-23	4.2	17
70	Manganese(III) Acetate Mediated Oxidation of Flavanones: A Facile Synthesis of Flavones. <i>Synthetic Communications</i> , 2005 , 35, 2723-2728	1.7	16
69	Human microbiome versus food-borne pathogens: friend or foe. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 4845-63	5.7	15
68	Regioselective Synthesis of Methyl 2,3-Dihydro-2-aryl Benzofuran-3-Carboxylates Using Thallium(III) Nitrate. <i>Synthetic Communications</i> , 1993 , 23, 585-590	1.7	13
67	Oxidative rearrangement of 2-spirochromanones: a novel route for the synthesis of tetrahydroxanthones. <i>Tetrahedron Letters</i> , 1991 , 32, 5619-5620	2	13
66	Hypervalent iodine oxidation of aryl methyl ketones: A convenient route to methyl Enethoxyarylacetas. <i>Tetrahedron Letters</i> , 1990 , 31, 3055-3058	2	13
65	Emergence of antibiotic-resistant extremophiles (AREs). <i>Extremophiles</i> , 2012 , 16, 697-713	3	12
64	Ultraviolet-radiation-resistant isolates revealed cellulose-degrading species of <i>Cellulosimicrobium cellulans</i> (UVP1) and <i>Bacillus pumilus</i> (UVP4). <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 395-404	2.8	11

63	Oxidation of Chromanones and 2-Spirochromanones with [Hydroxy(tosyloxy)iodo]benzene in Acetonitrile Under Reflux as well as Ultrasound: A Convenient Route for the Synthesis of Chromones, Tetrahydroxanthenes, and Their Higher Homologues. <i>Synthetic Communications</i> , 1994 , 24, 2637-2644	1.7	11
62	Thallium(III) p-Tosylate Mediated Oxidative 2,3-Aryl Rearrangement: A New Useful Route to Ipriflavone and Its Analogs. <i>Synthetic Communications</i> , 2008 , 38, 3875-3883	1.7	9
61	Spirocyclic sulfonamides with carbonic anhydrase inhibitory and anti-neuropathic pain activity. <i>Bioorganic Chemistry</i> , 2019 , 92, 103210	5.1	8
60	Emergence of Antibiotic-Producing Microorganisms in Residential Versus Recreational Microenvironments. <i>British Microbiology Research Journal</i> , 2013 , 3, 280-294		8
59	Oxidation of Flavonols Via Oxythallation Using Thallium(III) Acetate(TTA) and Thallium(III) Nitrate(TTN) in Methanol. <i>Synthetic Communications</i> , 1990 , 20, 2401-2408	1.7	8
58	Extremophiles and Their Applications in Medical Processes. <i>SpringerBriefs in Microbiology</i> , 2015 ,		7
57	A CONVENIENT METHOD FOR THE SYNTHESIS OF FLAVANONES BY THE SELECTIVE OXIDATION OF FLAVAN-4-OLS WITH HYPERVALENT IODINE. <i>Organic Preparations and Procedures International</i> , 1993 , 25, 693-695	1.1	7
56	Using genomics to develop novel antibacterial therapeutics. <i>Critical Reviews in Microbiology</i> , 2010 , 36, 340-8	7.8	6
55	Current Carotenoid Production Using Microorganisms 2017 , 87-106		5
54	Biotechnological Applications of Cold-Adapted Bacteria 2012 , 159-174		5
53	Thallium(III) Salts Mediated Oxidative Cyclization of Arenecarbaldehyde Benzothiazol-2-ylhydrazones to Bridged Head Nitrogen Heterocycles. <i>Synthetic Communications</i> , 1994 , 24, 2627-2635	1.7	5
52	Microbial occurrence and antibiotic resistance in ready-to-go food items. <i>Journal of Food Science and Technology</i> , 2018 , 55, 2600-2609	3.3	4
51	Implementation of nanoparticles in therapeutic radiation oncology. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	4
50	Attaining Extremophiles and Extremolytes: Methodologies and Limitations 2012 , 29-74		4
49	Two-dimensional gel electrophoresis: discovering neuropathic pain-associated synaptic biomarkers in spinal cord dorsal horn. <i>Methods in Molecular Biology</i> , 2012 , 851, 47-63	1.4	4
48	Applications of proteomic technologies for understanding the premature proteolysis of CFTR. <i>Expert Review of Proteomics</i> , 2010 , 7, 473-86	4.2	4
47	Foodborne Pathogens and Their Apparent Linkage with Antibiotic Resistance 2017 , 247-274		3
46	Establishing Novel Cell Factories Producing Natural Pigments in Europe 2017 , 23-60		3

45	Color-Producing Extremophiles 2017 , 61-86		3
44	Molecular Evolution of Extremophiles 2012 , 1-27		3
43	The Use of Extremophilic Microorganisms in the Industrial Recovery of Metals 2012 , 319-334		3
42	Regulation and Safety Assessment of Genetically Engineered Food. <i>Studies in Ethics, Law, and Technology</i> , 2010 , 4,		3
41	Integrating genomics and proteomics-oriented biomarkers to comprehend lung cancer. <i>Expert Opinion on Medical Diagnostics</i> , 2009 , 3, 167-80		3
40	Modulated gluconic acid production from immobilized cells of <i>Aspergillus niger</i> ORS-4.410 utilizing grape must. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 780-787	3.5	3
39	Thallium(III) Nitrate Mediated Ring Contraction of 2-Aryl-1,2,3,4-tetrahydro-4-quinolones: Stereoselective Synthesis of trans Methyl 2-Aryl-2,3-dihydroindol-3-carboxylates. <i>Synthetic Communications</i> , 2006 , 36, 943-950	1.7	3
38	Medical Device Sterilization and Reprocessing in the Era of Multidrug-Resistant (MDR) Bacteria: Issues and Regulatory Concepts.. <i>Frontiers in Medical Technology</i> , 2020 , 2, 587352	1.9	3
37	Introduction of Natural Pigments from Microorganisms 2017 , 1-22		2
36	Microbial Pigment Production Utilizing Agro-industrial Waste and Its Applications 2017 , 215-239		2
35	Diversity and Applications of Versatile Pigments Produced by <i>Monascus</i> sp 2017 , 193-214		2
34	Halophilic Properties and their Manipulation and Application 2012 , 95-121		2
33	Bacterial Polymers Produced by Extremophiles: Biosynthesis, Characterization, and Applications of Exopolysaccharides 2012 , 335-355		2
32	Biomedical Applications of Exopolysaccharides Produced by Microorganisms Isolated from Extreme Environments 2012 , 357-366		2
31	Protein-misfolding diseases and the paradigm of proteomics-based therapeutic targets. <i>Expert Review of Proteomics</i> , 2010 , 7, 463-4	4.2	2
30	Biosynthesis of Extremolytes: Radiation Resistance and Biotechnological Implications 2012 , 367-388		2
29	Integrating Omics into Biological Processes and Modeling for Bioremediation. <i>OMICS A Journal of Integrative Biology</i> , 2007 , 11, 231-232	3.8	2
28	Extracellular Synthesis and Characterization of Silver Nanoparticles from Alkaliphilic sp. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 1567-1577	1.3	2

27	Systems Biology: Integrating EOmics'-Oriented Approaches to Determine Foodborne Microbial Toxins		2
26	Biotechnological Advances in Lignocellulosic Ethanol Production 2018 , 57-82		1
25	Microbial Pigments: Potential Functions and Prospects 2017 , 241-261		1
24	Biochemistry and Molecular Mechanisms of Monascus Pigments 2017 , 173-191		1
23	Ecology and Biotechnology of Extremophilic Microorganisms, Particularly Anaerobic Thermophiles 2012 , 175-203		1
22	The Role of Extremophilic Microorganisms and their Bioproducts in Food Processing and Production 2012 , 205-232		1
21	Oxidation of Flavonols Using Lead(IV) Acetate in Acidic Methanol. <i>Synthetic Communications</i> , 1992 , 22, 1333-1337	1.7	1
20	Selective inhibition of <i>Helicobacter pylori</i> methionine aminopeptidase by azaindole hydroxamic acid derivatives: Design, synthesis, in vitro biochemical and structural studies. <i>Bioorganic Chemistry</i> , 2021 , 115, 105185	5.1	0
19	Synthetic immunosurveillance systems: nanodevices to monitor physiological events. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 152-64	11.8	
18	The Microbial World of Biocolor Production 2017 , 263-277		
17	C50 Carotenoids: Occurrence, Biosynthesis, Glycosylation, and Metabolic Engineering for their Overproduction 2017 , 107-126		
16	Biopigments and Microbial Biosynthesis of Carotenoids 2017 , 127-159		
15	Biotechnological Production of Melanins with Microorganisms 2017 , 161-171		
14	Extremophiles and Biosynthesis of Nanoparticles 2015 , 101-121		
13	Strategies for the Isolation and Cultivation of Halophilic Microorganisms 2012 , 75-94		
12	Features and Applications of Halophilic Archaea 2012 , 123-158		
11	Extremophiles and their Application to Biofuel Research 2012 , 233-265		
10	Sustainable Role of Thermophiles in the Second Generation of Ethanol Production 2012 , 267-289		

- 9 Ecofriendly Aspects of the Use of Extremophilic Enzymes in Textile Substrates **2012**, 291-318
- 8 Smart Therapeutics from Extremophiles: Unexplored Applications and Technological Challenges **2012**, 389-401
- 7 Thallium(III) p-tosylate-mediated oxidative [1,2] rearrangement of 2-naphthyl and 2-heteroarylchromanones. *Journal of Heterocyclic Chemistry*, **2022**, 59, 172 1.9
- 6 Multiple Molecular Chaperone-mediated Pharmacologic Rescue of F508-CFTR from ERAD. *FASEB Journal*, **2007**, 21, A420 0.9
- 5 Implications of Nanotechnology into Next Generation Biofuel Industry. *Advances in Chemical and Materials Engineering Book Series*, **2015**, 452-476 0.2
- 4 Role of enzymatic envelopment in energy unconventionality **2015**, 54-67
- 3 Harnessing the potential of lignocellulosic substrates into sustainable energy and value added chemicals **2015**, 36-52
- 2 Two-dimensional gel electrophoresis: discovering biomolecules for environmental bioremediation. *Methods in Molecular Biology*, **2010**, 599, 141-56 1.4
- 1 Novel synthesis of rotenoid, pongarotene, by oxidative rearrangement using thallium(III) p-tosylate. *Synthetic Communications*, 1-8 1.7