

# Om V Singh

## 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.

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	Thallium(III) p-tosylate-mediated oxidative [1,2] rearrangement of 2-naphthyl and 2-heteroarylchromanones. <i>Journal of Heterocyclic Chemistry</i> , <b>2022</b> , 59, 172	1.9	
97	Selective inhibition of Helicobacter pylori methionine aminopeptidase by azaindole hydroxamic acid derivatives: Design, synthesis, in vitro biochemical and structural studies. <i>Bioorganic Chemistry</i> , <b>2021</b> , 115, 105185	5.1	0
96	Extracellular Synthesis and Characterization of Silver Nanoparticles from Alkaliphilic sp. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 1567-1577	1.3	2
95	Medical Device Sterilization and Reprocessing in the Era of Multidrug-Resistant (MDR) Bacteria: Issues and Regulatory Concepts.. <i>Frontiers in Medical Technology</i> , <b>2020</b> , 2, 587352	1.9	3
94	Spirocyclic sulfonamides with carbonic anhydrase inhibitory and anti-neuropathic pain activity. <i>Bioorganic Chemistry</i> , <b>2019</b> , 92, 103210	5.1	8
93	Microbial occurrence and antibiotic resistance in ready-to-go food items. <i>Journal of Food Science and Technology</i> , <b>2018</b> , 55, 2600-2609	3.3	4
92	Biotechnological Advances in Lignocellulosic Ethanol Production <b>2018</b> , 57-82		1
91	Foodborne Pathogens and Their Apparent Linkage with Antibiotic Resistance <b>2017</b> , 247-274		3
90	Introduction of Natural Pigments from Microorganisms <b>2017</b> , 1-22		2
89	Microbial Pigment Production Utilizing Agro-industrial Waste and Its Applications <b>2017</b> , 215-239		2
88	Microbial Pigments: Potential Functions and Prospects <b>2017</b> , 241-261		1
87	The Microbial World of Biocolor Production <b>2017</b> , 263-277		
86	Establishing Novel Cell Factories Producing Natural Pigments in Europe <b>2017</b> , 23-60		3
85	Color-Producing Extremophiles <b>2017</b> , 61-86		3
84	Current Carotenoid Production Using Microorganisms <b>2017</b> , 87-106		5
83	C50 Carotenoids: Occurrence, Biosynthesis, Glycosylation, and Metabolic Engineering for their Overproduction <b>2017</b> , 107-126		
82	Biopigments and Microbial Biosynthesis of Carotenoids <b>2017</b> , 127-159		

81	Biotechnological Production of Melanins with Microorganisms <b>2017</b> , 161-171		
80	Biochemistry and Molecular Mechanisms of Monascus Pigments <b>2017</b> , 173-191		1
79	Diversity and Applications of Versatile Pigments Produced by Monascus sp <b>2017</b> , 193-214		2
78	Implementation of nanoparticles in therapeutic radiation oncology. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	4
77	Antibiotrophs: The complexity of antibiotic-subsisting and antibiotic-resistant microorganisms. <i>Critical Reviews in Microbiology</i> , <b>2016</b> , 42, 17-30	7.8	23
76	Human microbiome versus food-borne pathogens: friend or foe. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 4845-63	5.7	15
75	Extremophiles as sources of inorganic bio-nanoparticles. <i>World Journal of Microbiology and Biotechnology</i> , <b>2016</b> , 32, 156	4.4	23
74	Extremophiles and Their Applications in Medical Processes. <i>SpringerBriefs in Microbiology</i> , <b>2015</b> ,		7
73	Extremophiles and Biosynthesis of Nanoparticles <b>2015</b> , 101-121		
72	Implications of Nanotechnology into Next Generation Biofuel Industry. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2015</b> , 452-476	0.2	
71	Role of enzymatic envelopment in energy unconventionality <b>2015</b> , 54-67		
70	Harnessing the potential of lignocellulosic substrates into sustainable energy and value added chemicals <b>2015</b> , 36-52		
69	Synthetic immunosurveillance systems: nanodevices to monitor physiological events. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 61, 152-64	11.8	
68	Bioremediation: a genuine technology to remediate radionuclides from the environment. <i>Microbial Biotechnology</i> , <b>2013</b> , 6, 349-60	6.3	81
67	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> , <b>2013</b> , 6, 4	7.8	43
66	Detoxification of Lignocellulose Hydrolysates: Biochemical and Metabolic Engineering Toward White Biotechnology. <i>Bioenergy Research</i> , <b>2013</b> , 6, 388-401	3.1	144
65	Radiation-resistant extremophiles and their potential in biotechnology and therapeutics. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 993-1004	5.7	90
64	Emergence of Antibiotic-Producing Microorganisms in Residential Versus Recreational Microenvironments. <i>British Microbiology Research Journal</i> , <b>2013</b> , 3, 280-294		8

63	Sugarcane bagasse and leaves: foreseeable biomass of biofuel and bio-products. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 11-20	3.5	219
62	Ecology and Biotechnology of Extremophilic Microorganisms, Particularly Anaerobic Thermophiles <b>2012</b> , 175-203		1
61	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> , <b>2012</b> , 59, 395-404	2.8	11
60	Emergence of antibiotic-resistant extremophiles (AREs). <i>Extremophiles</i> , <b>2012</b> , 16, 697-713	3	12
59	Halophilic Properties and their Manipulation and Application <b>2012</b> , 95-121		2
58	Molecular Evolution of Extremophiles <b>2012</b> , 1-27		3
57	Attaining Extremophiles and Extremolytes: Methodologies and Limitations <b>2012</b> , 29-74		4
56	Strategies for the Isolation and Cultivation of Halophilic Microorganisms <b>2012</b> , 75-94		
55	Features and Applications of Halophilic Archaea <b>2012</b> , 123-158		
54	Biotechnological Applications of Cold-Adapted Bacteria <b>2012</b> , 159-174		5
53	The Role of Extremophilic Microorganisms and their Bioproducts in Food Processing and Production <b>2012</b> , 205-232		1
52	Extremophiles and their Application to Biofuel Research <b>2012</b> , 233-265		
51	Sustainable Role of Thermophiles in the Second Generation of Ethanol Production <b>2012</b> , 267-289		
50	Ecofriendly Aspects of the Use of Extremophilic Enzymes in Textile Substrates <b>2012</b> , 291-318		
49	The Use of Extremophilic Microorganisms in the Industrial Recovery of Metals <b>2012</b> , 319-334		3
48	Bacterial Polymers Produced by Extremophiles: Biosynthesis, Characterization, and Applications of Exopolysaccharides <b>2012</b> , 335-355		2
47	Biomedical Applications of Exopolysaccharides Produced by Microorganisms Isolated from Extreme Environments <b>2012</b> , 357-366		2
46	Two-dimensional gel electrophoresis: discovering neuropathic pain-associated synaptic biomarkers in spinal cord dorsal horn. <i>Methods in Molecular Biology</i> , <b>2012</b> , 851, 47-63	1.4	4

45	Biosynthesis of Extremolytes: Radiation Resistance and Biotechnological Implications <b>2012</b> , 367-388		2
44	Smart Therapeutics from Extremophiles: Unexplored Applications and Technological Challenges <b>2012</b> , 389-401		
43	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> , <b>2011</b> , 28, 593-9	6.4	38
42	Weedy lignocellulosic feedstock and microbial metabolic engineering: advancing the generation of 'Biofuel'. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 1289-303	5.7	125
41	Bioconversion of novel substrate <i>Saccharum spontaneum</i> , a weedy material, into ethanol by <i>Pichia stipitis</i> NCIM3498. <i>Bioresource Technology</i> , <b>2011</b> , 102, 1709-14	11	64
40	Regulation and Safety Assessment of Genetically Engineered Food. <i>Studies in Ethics, Law, and Technology</i> , <b>2010</b> , 4,		3
39	Applications of proteomic technologies for understanding the premature proteolysis of CFTR. <i>Expert Review of Proteomics</i> , <b>2010</b> , 7, 473-86	4.2	4
38	Protein-misfolding diseases and the paradigm of proteomics-based therapeutic targets. <i>Expert Review of Proteomics</i> , <b>2010</b> , 7, 463-4	4.2	2
37	Biotechnological Applications of Hemicellulosic Derived Sugars: State-of-the-Art <b>2010</b> , 63-81		18
36	Key drivers influencing the commercialization of ethanol-based biorefineries. <i>Journal of Commercial Biotechnology</i> , <b>2010</b> , 16, 239-257	2	42
35	Using genomics to develop novel antibacterial therapeutics. <i>Critical Reviews in Microbiology</i> , <b>2010</b> , 36, 340-8	7.8	6
34	Proteomics: a strategy to understand the novel targets in protein misfolding and cancer therapy. <i>Expert Review of Proteomics</i> , <b>2010</b> , 7, 613-23	4.2	17
33	Two-dimensional gel electrophoresis: discovering biomolecules for environmental bioremediation. <i>Methods in Molecular Biology</i> , <b>2010</b> , 599, 141-56	1.4	
32	Proteome of synaptosome-associated proteins in spinal cord dorsal horn after peripheral nerve injury. <i>Proteomics</i> , <b>2009</b> , 9, 1241-53	4.8	38
31	Integrating genomics and proteomics-oriented biomarkers to comprehend lung cancer. <i>Expert Opinion on Medical Diagnostics</i> , <b>2009</b> , 3, 167-80		3
30	Thallium(III) p-Tosylate Mediated Oxidative 2,3-Aryl Rearrangement: A New Useful Route to Ipriflavone and Its Analogs. <i>Synthetic Communications</i> , <b>2008</b> , 38, 3875-3883	1.7	9
29	Chemical rescue of deltaF508-CFTR mimics genetic repair in cystic fibrosis bronchial epithelial cells. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1099-110	7.6	50
28	Bioconversion of lignocellulosic biomass: biochemical and molecular perspectives. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2008</b> , 35, 377-391	4.2	817

27	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> , <b>2008</b> , 83, 780-787	3.5	3
26	Biotechnological production of gluconic acid: future implications. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 75, 713-22	5.7	122
25	Bioremediation of radionuclides: emerging technologies. <i>OMICS A Journal of Integrative Biology</i> , <b>2007</b> , 11, 295-304	3.8	25
24	Integrating [Omics] into Biological Processes and Modeling for Bioremediation. <i>OMICS A Journal of Integrative Biology</i> , <b>2007</b> , 11, 231-232	3.8	2
23	Multiple Molecular Chaperone-mediated Pharmacologic Rescue of [F508-CFTR from ERAD. <i>FASEB Journal</i> , <b>2007</b> , 21, A420	0.9	
22	Genetically modified crops: success, safety assessment, and public concern. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 598-607	5.7	60
21	Transcriptomics, proteomics and interactomics: unique approaches to track the insights of bioremediation. <i>Briefings in Functional Genomics &amp; Proteomics</i> , <b>2006</b> , 4, 355-62		56
20	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> , <b>2006</b> , 36, 943-950	1.7	3
19	Pharmacoproteomics of 4-phenylbutyrate-treated IB3-1 cystic fibrosis bronchial epithelial cells. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 562-71	5.6	45
18	Proteomics and metabolomics: the molecular make-up of toxic aromatic pollutant bioremediation. <i>Proteomics</i> , <b>2006</b> , 6, 5481-92	4.8	64
17	Manganese(III) Acetate Mediated Oxidation of Flavanones: A Facile Synthesis of Flavones. <i>Synthetic Communications</i> , <b>2005</b> , 35, 2723-2728	1.7	16
16	Gluconic acid production under varying fermentation conditions by <i>Aspergillus niger</i> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2003</b> , 78, 208-212	3.5	34
15	Polycyclic aromatic hydrocarbons: environmental pollution and bioremediation. <i>Trends in Biotechnology</i> , <b>2002</b> , 20, 243-8	15.1	828
14	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, Tetrahydroxanthones, and Their Higher Homologues. <i>Synthetic Communications</i> , <b>1994</b> , 24, 2627-2635	1.7	11
13	Thallium(III) Salts Mediated Oxidative Cyclization of Arenecarbaldehyde Benzothiazol-2-ylhydrazones to Bridged Head Nitrogen Heterocycles. <i>Synthetic Communications</i> , <b>1994</b> , 24, 2627-2635	1.7	5
12	Regioselective Synthesis of Methyl 2,3-Dihydro-2-aryl Benzofuran-3-Carboxylates Using Thallium(III) Nitrate. <i>Synthetic Communications</i> , <b>1993</b> , 23, 585-590	1.7	13
11	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> , <b>1993</b> , 25, 693-695	1.1	7
10	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> , <b>1993</b> , 23, 277-283	1.7	27

9	Oxidation of Flavonols Using Lead(IV) Acetate in Acidic Methanol. <i>Synthetic Communications</i> , <b>1992</b> , 22, 1333-1337	1.7	1
8	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> , <b>1992</b> , 1992, 751-752	2.2	19
7	Oxidative rearrangement of 2-spirochromanones: a novel route for the synthesis of tetrahydroxanthenes. <i>Tetrahedron Letters</i> , <b>1991</b> , 32, 5619-5620	2	13
6	Oxidative 1,2-aryl rearrangement in flavanones using thallium(III) -tolylsulphonate (TTS)= A new useful route to isoflavones. <i>Tetrahedron Letters</i> , <b>1990</b> , 31, 2747-2750	2	23
5	Dehydrogenation of flavanones to flavones using thallium(III) acetate(TTA). <i>Tetrahedron Letters</i> , <b>1990</b> , 31, 1459-1462	2	22
4	Hypervalent iodine oxidation of aryl methyl ketones: A convenient route to methyl $\alpha$ -methoxyarylacetas. <i>Tetrahedron Letters</i> , <b>1990</b> , 31, 3055-3058	2	13
3	Oxidation of Flavonols Via Oxythallation Using Thallium(III) Acetate(TTA) and Thallium(III) Nitrate(TTN) in Methanol. <i>Synthetic Communications</i> , <b>1990</b> , 20, 2401-2408	1.7	8
2	Systems Biology: Integrating $\beta$ -Omics'-Oriented Approaches to Determine Foodborne Microbial Toxins		2
1	Novel synthesis of rotenoid, pongarotene, by oxidative rearrangement using thallium(III) p-tosylate. <i>Synthetic Communications</i> , 1-8	1.7	