

# Manoj Kumar

## List of Publications by Year in descending order

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109  
papers

3,513  
citations

147801

31  
h-index

182427

51  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black soybean ( <i>Glycine max</i> (L.) Merr.): paving the way toward new nutraceutical. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 6208-6234.	10.3	4
2	Fermented barley bran: An improvement in phenolic compounds and antioxidant properties. <i>Journal of Food Processing and Preservation</i> , 2022, 46, e15543.	2.0	12
3	Flavonoids as potential anti-platelet aggregation agents: from biochemistry to health promoting abilities. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 8045-8058.	10.3	28
4	Evaluation of detoxified cottonseed protein isolate for application as food supplement. <i>Toxin Reviews</i> , 2022, 41, 412-419.	3.4	20
5	Functional characterization of plant-based protein to determine its quality for food applications. <i>Food Hydrocolloids</i> , 2022, 123, 106986.	10.7	65
6	Plant-based proteins and their multifaceted industrial applications. <i>LWT - Food Science and Technology</i> , 2022, 154, 112620.	5.2	93
7	Neoechinulins: Molecular, cellular, and functional attributes as promising therapeutics against cancer and other human diseases. <i>Biomedicine and Pharmacotherapy</i> , 2022, 145, 112378.	5.6	12
8	A review on instant controlled pressure drop technology – a strategic tool for extraction of bioactive compounds. <i>International Journal of Food Science and Technology</i> , 2022, 57, .	2.7	2
9	Onion ( <i>Allium cepa</i> L.) peels: A review on bioactive compounds and biomedical activities. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112498.	5.6	78
10	Citrinin Mycotoxin Contamination in Food and Feed: Impact on Agriculture, Human Health, and Detection and Management Strategies. <i>Toxins</i> , 2022, 14, 85.	3.4	36
11	Harnessing phytomicrobiome signals for phytopathogenic stress management. <i>Journal of Biosciences</i> , 2022, 47, 1.	1.1	2
12	Recent developments in cold plasma-based enzyme activity (browning, cell wall degradation, and) 1958-1978.	11.7	20
13	Neurobiological Promises of the Bitter Diterpene Lactone Andrographolide. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-9.	4.0	15
14	Trichothecenes in food and feed: Occurrence, impact on human health and their detection and management strategies. <i>Toxicon</i> , 2022, 208, 62-77.	1.6	28
15	Unraveling the promise and limitations of CRISPR/Cas system in natural product research: Approaches and challenges. <i>Biotechnology Journal</i> , 2022, 17, e2100507.	3.5	10
16	A Review of Recent Studies on the Antioxidant and Anti-Infectious Properties of Senna Plants. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-38.	4.0	28
17	Dioscin: A review on pharmacological properties and therapeutic values. <i>BioFactors</i> , 2022, 48, 22-55.	5.4	23
18	Bismuth Oxide Extended-Gate Field-Effect Transistor as pH Sensor. <i>Journal of Electronic Materials</i> , 2022, 51, 2673-2681.	2.2	3

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19	Biosynthesis of Secondary Metabolites Based on the Regulation of MicroRNAs. <i>BioMed Research International</i> , 2022, 2022, 1-20.	1.9	20
20	Valorization Potential of Tomato ( <i>Solanum lycopersicum</i> L.) Seed: Nutraceutical Quality, Food Properties, Safety Aspects, and Application as a Health-Promoting Ingredient in Foods. <i>Horticulturae</i> , 2022, 8, 265.	2.8	23
21	Guava ( <i>Psidium guajava</i> L.) seed: A low-volume, high-value byproduct for human health and the food industry. <i>Food Chemistry</i> , 2022, 386, 132694.	8.2	20
22	Moringa ( <i>Moringa oleifera</i> Lam.) polysaccharides: Extraction, characterization, bioactivities, and industrial application. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 763-778.	7.5	40
23	Charge storage mechanism in vanadium telluride/carbon nanobelts as electroactive material in an aqueous asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 110-118.	9.4	24
24	Apitherapy and Periodontal Disease: Insights into In Vitro, In Vivo, and Clinical Studies. <i>Antioxidants</i> , 2022, 11, 823.	5.1	8
25	Cottonseed feedstock as a source of plant-based protein and bioactive peptides: Evidence based on biofunctionalities and industrial applications. <i>Food Hydrocolloids</i> , 2022, 131, 107776.	10.7	13
26	Betelvine ( <i>Piper betle</i> L.): A comprehensive insight into its ethnopharmacology, phytochemistry, and pharmacological, biomedical and therapeutic attributes. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 3083-3119.	3.6	26
27	Optimization of the use of cellulolytic enzyme preparation for the extraction of health promoting anthocyanins from black carrot using response surface methodology. <i>LWT - Food Science and Technology</i> , 2022, 163, 113528.	5.2	9
28	Therapeutic uses of wild plant species used by rural inhabitants of Kangra in the western Himalayan region. <i>South African Journal of Botany</i> , 2022, 148, 415-436.	2.5	13
29	Assessment of Bioactive Compounds, Physicochemical Properties, and Microbial Attributes of Hot Air-Dried Mango Seed Kernel Powder: an Approach for Quality and Safety Evaluation of Hot Air-Dried Mango Seed Kernel Powder. <i>Food Analytical Methods</i> , 2022, 15, 2675-2690.	2.6	7
30	Diosgenin: An Updated Pharmacological Review and Therapeutic Perspectives. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-17.	4.0	58
31	Deoxynivalenol: An Overview on Occurrence, Chemistry, Biosynthesis, Health Effects and Its Detection, Management, and Control Strategies in Food and Feed. <i>Microbiology Research</i> , 2022, 13, 292-314.	1.9	18
32	A survey on ethnoveterinary medicines used by the tribal migratory shepherds of Northwestern Himalaya. <i>Journal of Ethnopharmacology</i> , 2022, 296, 115467.	4.1	3
33	<i>Carica papaya</i> L. Leaves: Deciphering Its Antioxidant Bioactives, Biological Activities, Innovative Products, and Safety Aspects. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-20.	4.0	12
34	UV-irradiation assisted functionalization and binding of Pd nanoparticles in polycarbonate membranes for hydrogen separation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46404-46413.	5.3	4
35	Synthesis of highly fluorescent and water soluble graphene quantum dots for detection of heavy metal ions in aqueous media. <i>Environmental Science and Pollution Research</i> , 2021, 28, 46336-46342.	5.3	21
36	Ultrasound-assisted development of stable grapefruit peel polyphenolic nano-emulsion: Optimization and application in improving oxidative stability of mustard oil. <i>Food Chemistry</i> , 2021, 334, 127561.	8.2	60

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37	Extraction of ultra-low gossypol protein from cottonseed: Characterization based on antioxidant activity, structural morphology and functional group analysis. <i>LWT - Food Science and Technology</i> , 2021, 140, 110692.	5.2	31
38	Litchi ( <i>Litchi chinensis</i> ) seed: Nutritional profile, bioactivities, and its industrial applications. <i>Trends in Food Science and Technology</i> , 2021, 108, 58-70.	15.1	36
39	Mango ( <i>Mangifera indica</i> L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Bioactivities. <i>Antioxidants</i> , 2021, 10, 299.	5.1	51
40	Lithiation mechanism of antimony chalcogenides ( $Sb_2X_3$ ; X = S,) <i>Tj ETQq0 0 0 rgBT /Overlock Research</i> , 2021, 45, 11135-11145.	4.5	9
41	Custard Apple ( <i>Annona squamosa</i> L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Biological Activities. <i>Biomolecules</i> , 2021, 11, 614.	4.0	38
42	Cottonseed Kernel Powder as a Natural Health Supplement: An Approach to Reduce the Gossypol Content and Maximize the Nutritional Benefits. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3901.	2.5	14
43	Guava ( <i>Psidium guajava</i> L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Bioactivities. <i>Foods</i> , 2021, 10, 752.	4.3	92
44	<i>Salvadora persica</i> : Nature's Gift for Periodontal Health. <i>Antioxidants</i> , 2021, 10, 712.	5.1	19
45	Pearl millet grain as an emerging source of starch: A review on its structure, physicochemical properties, functionalization, and industrial applications. <i>Carbohydrate Polymers</i> , 2021, 260, 117776.	10.2	50
46	Cottonseed: A sustainable contributor to global protein requirements. <i>Trends in Food Science and Technology</i> , 2021, 111, 100-113.	15.1	70
47	Rice Bran Oil: Emerging Trends in Extraction, Health Benefit, and Its Industrial Application. <i>Rice Science</i> , 2021, 28, 217-232.	3.9	63
48	<i>Calligonum polygonoides</i> L. as Novel Source of Bioactive Compounds in Hot Arid Regions: Evaluation of Phytochemical Composition and Antioxidant Activity. <i>Plants</i> , 2021, 10, 1156.	3.5	10
49	Beneficial Role of Antioxidant Secondary Metabolites from Medicinal Plants in Maintaining Oral Health. <i>Antioxidants</i> , 2021, 10, 1061.	5.1	50
50	All-Solid-State Li-Ion Batteries Using a Combination of $Sb_2S_3/Li_2S-P_2S_5$ /Acetylene Black as the Electrode Composite and $LiBH_4$ as the Electrolyte. <i>ACS Applied Energy Materials</i> , 2021, 4, 6269-6276.	5.1	5
51	A Pharmacological Perspective on Plant-derived Bioactive Molecules for Epilepsy. <i>Neurochemical Research</i> , 2021, 46, 2205-2225.	3.3	42
52	Advances in the plant protein extraction: Mechanism and recommendations. <i>Food Hydrocolloids</i> , 2021, 115, 106595.	10.7	173
53	Mango seed starch: A sustainable and eco-friendly alternative to increasing industrial requirements. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1807-1817.	7.5	21
54	Evaluation of Nutritional, Phytochemical, and Mineral Composition of Selected Medicinal Plants for Therapeutic Uses from Cold Desert of Western Himalaya. <i>Plants</i> , 2021, 10, 1429.	3.5	40

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55	Wonder or evil?: Multifaceted health hazards and health benefits of Cannabis sativa and its phytochemicals. Saudi Journal of Biological Sciences, 2021, 28, 7290-7313.	3.8	24
56	Plant-Based Antioxidant Extracts and Compounds in the Management of Oral Cancer. Antioxidants, 2021, 10, 1358.	5.1	26
57	Recent trends in extraction of plant bioactives using green technologies: A review. Food Chemistry, 2021, 353, 129431.	8.2	92
58	Ethnomedicinal Use, Phytochemistry, and Pharmacology of Xylocarpus granatum J. Koenig. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-16.	1.2	10
59	Natural Antimicrobials as Additives for Edible Food Packaging Applications: A Review. Foods, 2021, 10, 2282.	4.3	40
60	Therapeutic Uses of Wild Plants by Rural Inhabitants of Maraog Region in District Shimla, Himachal Pradesh, India. Horticulturae, 2021, 7, 343.	2.8	17
61	Ethnomedicinal Plants Used in the Health Care System: Survey of the Mid Hills of Solan District, Himachal Pradesh, India. Plants, 2021, 10, 1842.	3.5	22
62	Tomato (Solanum lycopersicum L.) seed: A review on bioactives and biomedical activities. Biomedicine and Pharmacotherapy, 2021, 142, 112018.	5.6	52
63	Nutritional composition patterns and application of multivariate analysis to evaluate indigenous		

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73	Garlic ( <i>Allium sativum</i> L.) Bioactives and Its Role in Alleviating Oral Pathologies. <i>Antioxidants</i> , 2021, 10, 1847.	5.1	40
74	Lycopene: Food Sources, Biological Activities, and Human Health Benefits. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-10.	4.0	81
75	Tuning of fermi level in antimony telluride thin films by low-energy Fe <sup>2+</sup> -ion implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	31
76	Black Carrot ( <i>Daucus carota</i> ssp.) and Black Soybean ( <i>Glycine max</i> (L.) Merr.) Anthocyanin Extract: A Remedy to Enhance Stability and Functionality of Fruit Juices by Copigmentation. <i>Waste and Biomass Valorization</i> , 2020, 11, 99-108.	3.4	15
77	Nanostructured Bi <sub>2</sub> Te <sub>3</sub> as anode material as well as a destabilizing agent for LiBH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 16992-16999.	7.1	16
78	Emerging trends in pectin extraction and its anti-microbial functionalization using natural bioactives for application in food packaging. <i>Trends in Food Science and Technology</i> , 2020, 105, 223-237.	15.1	72
79	Evaluation of Cellulolytic Enzyme-Assisted Microwave Extraction of <i>Punica granatum</i> Peel Phenolics and Antioxidant Activity. <i>Plant Foods for Human Nutrition</i> , 2020, 75, 614-620.	3.2	20
80	Enhancing the functionality of chitosan- and alginate-based active edible coatings/films for the preservation of fruits and vegetables: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 304-320.	7.5	172
81	Metagenomic analysis of the fecal microbiome of an adult elephant reveals the diversity of CAZymes related to lignocellulosic biomass degradation. <i>Symbiosis</i> , 2020, 81, 209-222.	2.3	11
82	Electrochemical reaction mechanism for Bi <sub>2</sub> Te <sub>3</sub> -based anode material in highly durable all solid-state lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16429-16436.	2.2	9
83	Destabilization of LiBH <sub>4</sub> by the infusion of Bi <sub>2</sub> X <sub>3</sub> (X = S, Se, Te): an <i>in situ</i> TEM investigation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25706-25715.	10.3	7
84	Implementation of Bismuth Chalcogenides as an Efficient Anode: A Journey from Conventional Liquid Electrolyte to an All-Solid-State Li-Ion Battery. <i>Molecules</i> , 2020, 25, 3733.	3.8	22
85	Development of ZnO nanostructure film for pH sensing application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	22
86	Highly stable nanostructured Bi <sub>2</sub> Se <sub>3</sub> anode material for all solid-state lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155403.	5.5	28
87	Bioavailability and Nutritional Analysis of Flavonoids. , 2020, , 135-156.		3
88	Morphology-dependent structural and optical properties of ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	51
89	Valorisation of black carrot pomace: microwave assisted extraction of bioactive phytochemicals and antioxidant activity using Box-Behnken design. <i>Journal of Food Science and Technology</i> , 2019, 56, 995-1007.	2.8	58
90	Evaluation of enzyme and microwave-assisted conditions on extraction of anthocyanins and total phenolics from black soybean ( <i>Glycine max</i> L.) seed coat. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 1070-1081.	7.5	41

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91	Highly efficient & stable Bi & Sb anodes using lithium borohydride as solid electrolyte in Li-ion batteries. RSC Advances, 2019, 9, 13077-13081.	3.6	20
92	Paruthi Paal, a nutrient-rich healthy drink from cottonseed: an Indian delicacy. Journal of Ethnic Foods, 2019, 6, .	1.9	12
93	Flower-like Bi <sub>2</sub> S <sub>3</sub> nanostructures as highly efficient anodes for all-solid-state lithium-ion batteries. RSC Advances, 2019, 9, 29549-29555.	3.6	33
94	Cellulase enhances anthocyanin and phenolic content in black carrot juice. Indian Journal of Horticulture, 2019, 76, 749.	0.1	2
95	LiBH <sub>4</sub> as solid electrolyte for Li-ion batteries with Bi <sub>2</sub> Te <sub>3</sub> nanostructured anode. International Journal of Hydrogen Energy, 2018, 43, 21709-21714.	7.1	20
96	Synthesis and characterization of hybrid PANI/MWCNT nanocomposites for EMI applications. Polymer Composites, 2018, 39, 3858-3868.	4.6	47
97	Functionalized and engineered nanochannels for gas separation. Pure and Applied Chemistry, 2018, 90, 1063-1071.	1.9	7
98	Electrochemical sensor for detection of mercury (II) ions in water using nanostructured bismuth hexagons. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	29
99	Investigation of dimensionality-dependent thermal stability of $\text{Bi}_2\text{Te}_3$ . Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
100	Mitigation of abiotic stresses in Lycopersicon esculentum by endophytic bacteria. Environmental Sustainability, 2018, 1, 71-80.	2.8	18
101	Investigation of luminescence and structural properties of ZnO nanoparticles, synthesized with different precursors. Materials Chemistry Frontiers, 2017, 1, 1413-1421.	5.9	113
102	Electrical behavior of dual-morphology polyaniline. Journal of Applied Polymer Science, 2016, 133, .	2.6	29
103	Structural and Morphological Study of PS/TiO <sub>2</sub> Nanocomposite Membranes. Macromolecular Symposia, 2015, 357, 200-205.	0.7	3
104	Structural and Morphological Study of PS/ZnO Nanocomposite Membrane. Macromolecular Symposia, 2015, 357, 218-222.	0.7	7
105	Optical and Structural Study of Polyaniline/Polystyrene Composite Films. Macromolecular Symposia, 2015, 357, 229-234.	0.7	21
106	Sodium chloride-induced spatial and temporal manifestation in membrane stability index and protein profiles of contrasting wheat (Triticum aestivum L.) genotypes under salt stress. Indian Journal of Plant Physiology, 2015, 20, 271-275.	0.8	14
107	Anti-Inflammatory Treatments for Chronic Diseases: A Review. Inflammation and Allergy: Drug Targets, 2013, 12, 349-361.	1.8	229
108	Antioxidant Activity of Antiviral Proteins from Celosia cristata. Journal of Plant Biochemistry and Biotechnology, 2004, 13, 13-18.	1.7	30

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109	Chalcogenides as Anode Material for All-Solid-State Li-Ion Batteries. ACS Symposium Series, 0, , 57-86.	0.5	0