Manoj Kumar

List of Publications by Year
in descending order

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	Anti-Inflammatory Treatments for Chronic Diseases: A Review. Inflammation and Allergy: Drug Targets, 2013, 12, 349-361.	1.8	229
2	Advances in the plant protein extraction: Mechanism and recommendations. Food Hydrocolloids, 2021, 115, 106595.	10.7	173
3	Enhancing the functionality of chitosan- and alginate-based active edible coatings/films for the preservation of fruits and vegetables: A review. International Journal of Biological Macromolecules, 2020, 164, 304-320.	7.5	172
4	Investigation of luminescence and structural properties of ZnO nanoparticles, synthesized with different precursors. Materials Chemistry Frontiers, 2017, 1, 1413-1421.	5.9	113
5	Plant-based proteins and their multifaceted industrial applications. LWT - Food Science and Technology, 2022, 154, 112620.	5.2	93
6	Guava (Psidium guajava L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Bioactivities. Foods, 2021, 10, 752.	4.3	92
7	Recent trends in extraction of plant bioactives using green technologies: A review. Food Chemistry, 2021, 353, 129431.	8.2	92
8	Lycopene: Food Sources, Biological Activities, and Human Health Benefits. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-10.	4.0	81
9	Onion (Allium cepa L.) peels: A review on bioactive compounds and biomedical activities. Biomedicine and Pharmacotherapy, 2022, 146, 112498.	5.6	78
10	Emerging trends in pectin extraction and its anti-microbial functionalization using natural bioactives for application in food packaging. Trends in Food Science and Technology, 2020, 105, 223-237.	15.1	72
11	Cottonseed: A sustainable contributor to global protein requirements. Trends in Food Science and Technology, 2021, 111, 100-113.	15.1	70
12	Functional characterization of plant-based protein to determine its quality for food applications. Food Hydrocolloids, 2022, 123, 106986.	10.7	65
13	Rice Bran Oil: Emerging Trends in Extraction, Health Benefit, and Its Industrial Application. Rice Science, 2021, 28, 217-232.	3.9	63
14	Ultrasound-assisted development of stable grapefruit peel polyphenolic nano-emulsion: Optimization and application in improving oxidative stability of mustard oil. Food Chemistry, 2021, 334, 127561.	8.2	60
15	Valorisation of black carrot pomace: microwave assisted extraction of bioactive phytoceuticals and antioxidant activity using Boxâ€“Behnken design. Journal of Food Science and Technology, 2019, 56, 995-1007.	2.8	58
16	Diosgenin: An Updated Pharmacological Review and Therapeutic Perspectives. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-17.	4.0	58
17	Tomato (Solanum lycopersicum L.) seed: A review on bioactives and biomedical activities. Biomedicine and Pharmacotherapy, 2021, 142, 112018.	5.6	52
18	Morphology-dependent structural and optical properties of ZnO nanostructures. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	51

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19	Mango (Mangifera indica L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Bioactivities. Antioxidants, 2021, 10, 299.	5.1	51
20	Pearl millet grain as an emerging source of starch: A review on its structure, physicochemical properties, functionalization, and industrial applications. Carbohydrate Polymers, 2021, 260, 117776.	10.2	50
21	Beneficial Role of Antioxidant Secondary Metabolites from Medicinal Plants in Maintaining Oral Health. Antioxidants, 2021, 10, 1061.	5.1	50
22	Citrus Genus and Its Waste Utilization: A Review on Health-Promoting Activities and Industrial Application. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-17.	1.2	50
23	Synthesis and characterization of hybrid PANI/MWCNT nanocomposites for EMI applications. Polymer Composites, 2018, 39, 3858-3868.	4.6	47
24	A Pharmacological Perspective on Plant-derived Bioactive Molecules for Epilepsy. Neurochemical Research, 2021, 46, 2205-2225.	3.3	42
25	Evaluation of enzyme and microwave-assisted conditions on extraction of anthocyanins and total phenolics from black soybean (Glycine max L.) seed coat. International Journal of Biological Macromolecules, 2019, 135, 1070-1081.	7.5	41
26	Evaluation of Nutritional, Phytochemical, and Mineral Composition of Selected Medicinal Plants for Therapeutic Uses from Cold Desert of Western Himalaya. Plants, 2021, 10, 1429.	3.5	40
27	Natural Antimicrobials as Additives for Edible Food Packaging Applications: A Review. Foods, 2021, 10, 2282.	4.3	40
28	Garlic (Allium sativum L.) Bioactives and Its Role in Alleviating Oral Pathologies. Antioxidants, 2021, 10, 1847.	5.1	40
29	Moringa (Moringa oleifera Lam.) polysaccharides: Extraction, characterization, bioactivities, and industrial application. International Journal of Biological Macromolecules, 2022, 209, 763-778.	7.5	40
30	Custard Apple (Annona squamosa L.) Leaves: Nutritional Composition, Phytochemical Profile, and Health-Promoting Biological Activities. Biomolecules, 2021, 11, 614.	4.0	38
31	Litchi (Litchi chinenis) seed: Nutritional profile, bioactivities, and its industrial applications. Trends in Food Science and Technology, 2021, 108, 58-70.	15.1	36
32	Citrinin Mycotoxin Contamination in Food and Feed: Impact on Agriculture, Human Health, and Detection and Management Strategies. Toxins, 2022, 14, 85.	3.4	36
33	Recent developments in applications of lactic acid bacteria against mycotoxin production and fungal contamination. Food Bioscience, 2021, 44, 101444.	4.4	34
34	Flower-like Bi₂S₃ nanostructures as highly efficient anodes for all-solid-state lithium-ion batteries. RSC Advances, 2019, 9, 29549-29555.	3.6	33
35	Extraction of ultra-low gossypol protein from cottonseed: Characterization based on antioxidant activity, structural morphology and functional group analysis. LWT - Food Science and Technology, 2021, 140, 110692.	5.2	31
36	Tuning of fermi level in antimony telluride thin films by low-energy Feâ˜-ion implantation. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	31

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37	Antioxidant Activity of Antiviral Proteins from Celosia cristata. Journal of Plant Biochemistry and Biotechnology, 2004, 13, 13-18.	1.7	30
38	Electrical behavior of dualâ€morphology polyaniline. Journal of Applied Polymer Science, 2016, 133, .	2.6	29
39	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
40	Flavonoids as potential anti-platelet aggregation agents: from biochemistry to health promoting abilities. Critical Reviews in Food Science and Nutrition, 2022, 62, 8045-8058.	10.3	28
41	Highly stable nanostructured Bi2Se3 anode material for all solid-state lithium-ion batteries. Journal of Alloys and Compounds, 2020, 838, 155403.	5.5	28
42	Trichothecenes in food and feed: Occurrence, impact on human health and their detection and management strategies. Toxicon, 2022, 208, 62-77.	1.6	28
43	A Review of Recent Studies on the Antioxidant and Anti-Infectious Properties of Senna Plants. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-38.	4.0	28
44	Plant-Based Antioxidant Extracts and Compounds in the Management of Oral Cancer. Antioxidants, 2021, 10, 1358.	5.1	26
45	Aspergillus oryzae Fermented Rice Bran: A Byproduct with Enhanced Bioactive Compounds and Antioxidant Potential. Foods, 2021, 10, 70.	4.3	26
46	Betelvine (Piper betle L.): A comprehensive insight into its ethnopharmacology, phytochemistry, and pharmacological, biomedical and therapeutic attributes. Journal of Cellular and Molecular Medicine, 2022, 26, 3083-3119.	3.6	26
47	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
48	Nutritional composition patterns and application of multivariate analysis to evaluate indigenous		

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55	Documentation of Commonly Used Ethnoveterinary Medicines from Wild Plants of the High Mountains in Shimla District, Himachal Pradesh, India. Horticulturae, 2021, 7, 351.	2.8	22
56	Optical and Structural Study of Polyaniline/Polystyrene Composite Films. Macromolecular Symposia, 2015, 357, 229-234.	0.7	21
57	Synthesis of highly fluorescent and water soluble graphene quantum dots for detection of heavy metal ions in aqueous media. Environmental Science and Pollution Research, 2021, 28, 46336-46342.	5.3	21
58	Mango seed starch: A sustainable and eco-friendly alternative to increasing industrial requirements. International Journal of Biological Macromolecules, 2021, 183, 1807-1817.	7.5	21
59	LiBH4 as solid electrolyte for Li-ion batteries with Bi2Te3 nanostructured anode. International Journal of Hydrogen Energy, 2018, 43, 21709-21714.	7.1	20
60	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
61	Evaluation of Cellulolytic Enzyme-Assisted Microwave Extraction of Punica granatum Peel Phenolics and Antioxidant Activity. Plant Foods for Human Nutrition, 2020, 75, 614-620.	3.2	20
62	Evaluation of detoxified cottonseed protein isolate for application as food supplement. Toxin Reviews, 2022, 41, 412-419.	3.4	20
63	Delineating the inherent functional descriptors and biofunctionalities of pectic polysaccharides. Carbohydrate Polymers, 2021, 269, 118319.	10.2	20
64	Application of high energy electromagnetic radiations in elimination of anti-nutritional factors from oilseeds. LWT - Food Science and Technology, 2021, 151, 112085.	5.2	20
65	Recent developments in cold plasmaâ€based enzyme activity (browning, cell wall degradation, and) Tj ETQq1 1 0.784314 rgBT /Overl 1958-1978.	11.7	20
66	Biosynthesis of Secondary Metabolites Based on the Regulation of MicroRNAs. BioMed Research International, 2022, 2022, 1-20.	1.9	20
67	Guava (Psidium guajava L.) seed: A low-volume, high-value byproduct for human health and the food industry. Food Chemistry, 2022, 386, 132694.	8.2	20
68	Salvadora persica: Natureâ€™s Gift for Periodontal Health. Antioxidants, 2021, 10, 712.	5.1	19
69	Mitigation of abiotic stresses in Lycopersicon esculentum by endophytic bacteria. Environmental Sustainability, 2018, 1, 71-80.	2.8	18
70	Deoxynivalenol: An Overview on Occurrence, Chemistry, Biosynthesis, Health Effects and Its Detection, Management, and Control Strategies in Food and Feed. Microbiology Research, 2022, 13, 292-314.	1.9	18
71	Therapeutic Uses of Wild Plants by Rural Inhabitants of Maraog Region in District Shimla, Himachal Pradesh, India. Horticulturae, 2021, 7, 343.	2.8	17
72	Nanostructured Bi2Te3 as anode material as well as a destabilizing agent for LiBH4. International Journal of Hydrogen Energy, 2020, 45, 16992-16999.	7.1	16

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73	Jackfruit seed slimy sheath, a novel source of pectin: Studies on antioxidant activity, functional group, and structural morphology. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100054.	2.6	16
74	Black Carrot (Daucus carota ssp.) and Black Soybean (Glycine max (L.) Merr.) Anthocyanin Extract: A Remedy to Enhance Stability and Functionality of Fruit Juices by Copigmentation. Waste and Biomass Valorization, 2020, 11, 99-108.	3.4	15
75	Neurobiological Promises of the Bitter Diterpene Lactone Andrographolide. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-9.	4.0	15
76	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
77	Cottonseed Kernel Powder as a Natural Health Supplement: An Approach to Reduce the Gossypol Content and Maximize the Nutritional Benefits. Applied Sciences (Switzerland), 2021, 11, 3901.	2.5	14
78	Cottonseed feedstock as a source of plant-based protein and bioactive peptides: Evidence based on biofunctionalities and industrial applications. Food Hydrocolloids, 2022, 131, 107776.	10.7	13
79	Therapeutic uses of wild plant species used by rural inhabitants of Kangra in the western Himalayan region. South African Journal of Botany, 2022, 148, 415-436.	2.5	13
80	Paruthi Paal, a nutrient-rich healthy drink from cottonseed: an Indian delicacy. Journal of Ethnic Foods, 2019, 6, .	1.9	12
81	Fermented barley bran: An improvement in phenolic compounds and antioxidant properties. Journal of Food Processing and Preservation, 2022, 46, e15543.	2.0	12
82	Neoechinulins: Molecular, cellular, and functional attributes as promising therapeutics against cancer and other human diseases. Biomedicine and Pharmacotherapy, 2022, 145, 112378.	5.6	12
83	Carica papaya L. Leaves: Deciphering Its Antioxidant Bioactives, Biological Activities, Innovative Products, and Safety Aspects. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-20.	4.0	12
84	Metagenomic analysis of the fecal microbiome of an adult elephant reveals the diversity of CAZymes related to lignocellulosic biomass degradation. Symbiosis, 2020, 81, 209-222.	2.3	11
85	Calligonum polygonoides L. as Novel Source of Bioactive Compounds in Hot Arid Regions: Evaluation of Phytochemical Composition and Antioxidant Activity. Plants, 2021, 10, 1156.	3.5	10
86	Ethnomedicinal Use, Phytochemistry, and Pharmacology of Xylocarpus granatum J. Koenig. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-16.	1.2	10
87	Unraveling the promise and limitations of CRISPR/Cas system in natural product research: Approaches and challenges. Biotechnology Journal, 2022, 17, e2100507.	3.5	10
88	Electrochemical reaction mechanism for Bi2Te3-based anode material in highly durable all solid-state lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2020, 31, 16429-16436.	2.2	9
89	Lithiation mechanism of antimony chalcogenides (<scp> Sb ₂ X ₃ </scp> ; X = S,) Tj ETQq1 1 0.784314 rgBT Research, 2021, 45, 11135-11145.	4.5	9
90	Optimization of the use of cellulolytic enzyme preparation for the extraction of health promoting anthocyanins from black carrot using response surface methodology. LWT - Food Science and Technology, 2022, 163, 113528.	5.2	9

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91	Apitherapy and Periodontal Disease: Insights into In Vitro, In Vivo, and Clinical Studies. Antioxidants, 2022, 11, 823.	5.1	8
92	Structural and Morphological Study of PSâ€ZnO Nanocomposite Membrane. Macromolecular Symposia, 2015, 357, 218-222.	0.7	7
93	Functionalized and engineered nanochannels for gas separation. Pure and Applied Chemistry, 2018, 90, 1063-1071.	1.9	7
94	Destabilization of LiBH₄ by the infusion of Bi₂X₃ (X = S, Se, Te): an in situ TEM investigation. Journal of Materials Chemistry A, 2020, 8, 25706-25715.	10.3	7
95	Litchi (Litchi chinensis) seed starch: Structure, properties, and applications - A review. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100080.	2.6	7
96	Assessment of Bioactive Compounds, Physicochemical Properties, and Microbial Attributes of Hot Airâ€“Dried Mango Seed Kernel Powder: an Approach for Quality and Safety Evaluation of Hot Airâ€“Dried Mango Seed Kernel Powder. Food Analytical Methods, 2022, 15, 2675-2690.	2.6	7
97	All-Solid-State Li-Ion Batteries Using a Combination of Sb₂S₃/Li₂S-P₂S₅/Acetylene Black as the Electrode Composite and LiBH₄ as the Electrolyte. ACS Applied Energy Materials, 2021, 4, 6269-6276.	5.1	5
98	UV-irradiation assisted functionalization and binding of Pd nanoparticles in polycarbonate membranes for hydrogen separation. Environmental Science and Pollution Research, 2021, 28, 46404-46413.	5.3	4
99	Black soybean (Glycine max (L.) Merr.): paving the way toward new nutraceutical. Critical Reviews in Food Science and Nutrition, 2023, 63, 6208-6234.	10.3	4
100	Structural and Morphological Study of PSâ€TiO₂ Nanocomposite Membranes. Macromolecular Symposia, 2015, 357, 200-205.	0.7	3
101	Investigation of dimensionality-dependent thermal stability of $${hbox {Bi}}_{2} {hbox {Te}}_{3}$$ Bi 2 Te 3. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
102	Structural and Morphological Modifications Induced by Fe Ion Implantation in Sb₂Te₃ Thin Films. Macromolecular Symposia, 2021, 399, 2100079.	0.7	3
103	Bioavailability and Nutritional Analysis of Flavonoids. , 2020, , 135-156.		3
104	Bismuth Oxide Extended-Gate Field-Effect Transistor as pH Sensor. Journal of Electronic Materials, 2022, 51, 2673-2681.	2.2	3
105	A survey on ethnoveterinary medicines used by the tribal migratory shepherds of Northwestern Himalaya. Journal of Ethnopharmacology, 2022, 296, 115467.	4.1	3
106	Cellulase enhances anthocyanin and phenolic content in black carrot juice. Indian Journal of Horticulture, 2019, 76, 749.	0.1	2
107	A review on instant controlled pressure drop technology â€“ a strategic tool for extraction of bioactive compounds. International Journal of Food Science and Technology, 2022, 57, .	2.7	2
108	Harnessing phytomicrobiome signals for phytopathogenic stress management. Journal of Biosciences, 2022, 47, 1.	1.1	2

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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