Piyush Kumar Gupta

List of Publications by Year in descending order

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279798 330143 2,185 109 23 37 citations h-index g-index papers 112 112 112 1116 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Green Synthesis of Metallic Nanoparticles: Applications and Limitations. Catalysts, 2021, 11, 902.	3.5	237
2	Microfluidic chips: recent advances, critical strategies in design, applications and future perspectives. Microfluidics and Nanofluidics, 2021, 25, 99.	2.2	73
3	Agricultural Waste and Wastewater as Feedstock for Bioelectricity Generation Using Microbial Fuel Cells: Recent Advances. Fermentation, 2021, 7, 169.	3.0	72
4	Microbial desalination cell: Desalination through conserving energy. Desalination, 2022, 521, 115381.	8.2	71
5	Use of biomass-derived biochar in wastewater treatment and power production: A promising solution for a sustainable environment. Science of the Total Environment, 2022, 825, 153892.	8.0	62
6	Discovering multifaceted role of vanillic acid beyond flavours: Nutraceutical and therapeutic potential. Trends in Food Science and Technology, 2022, 122, 187-200.	15.1	56
7	Recent Developments in Microbial Electrolysis Cell-Based Biohydrogen Production Utilizing Wastewater as a Feedstock. Sustainability, 2021, 13, 8796.	3.2	53
8	Recent advances in the application of biochar in microbial electrochemical cells. Fuel, 2022, 311, 122501.	6.4	43
9	Autophagy and EMT in cancer and metastasis: Who controls whom?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166431.	3.8	43
10	Molecular mechanism(s) of regulation(s) of c-MET/HGF signaling in head and neck cancer. Molecular Cancer, 2022, 21, 31.	19.2	42
11	Potential and future prospects of biochar-based materials and their applications in removal of organic contaminants from industrial wastewater. Journal of Material Cycles and Waste Management, 2022, 24, 852-876.	3.0	42
12	Self-assembled dual-drug loaded core-shell nanoparticles based on metal-free fully alternating polyester for cancer theranostics. Materials Science and Engineering C, 2019, 101, 448-463.	7. 3	40
13	Berberine-loaded liquid crystalline nanoparticles inhibit non-small cell lung cancer proliferation and migration in vitro. Environmental Science and Pollution Research, 2022, 29, 46830-46847.	5.3	40
14	Meniscal tissue engineering via 3D printed PLA monolith with carbohydrate based self-healing interpenetrating network hydrogel. International Journal of Biological Macromolecules, 2020, 162, 1358-1371.	7. 5	38
15	Recent trends in biodegradable polyester nanomaterials for cancer therapy. Materials Science and Engineering C, 2021, 127, 112198.	7. 3	37
16	Valorisation of CO2 into Value-Added Products via Microbial Electrosynthesis (MES) and Electro-Fermentation Technology. Fermentation, 2021, 7, 291.	3.0	35
17	<i>Abrus</i> agglutinin stimulates BMPâ€2â€dependent differentiation through autophagic degradation of βâ€catenin in colon cancer stem cells. Molecular Carcinogenesis, 2018, 57, 664-677.	2.7	33
18	Extracellular Vesicle-Based Therapy for COVID-19: Promises, Challenges and Future Prospects. Biomedicines, 2021, 9, 1373.	3.2	33

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19	A Comprehensive Review on Oxygen Reduction Reaction in Microbial Fuel Cells. Journal of Renewable Materials, 2022, 10, 665-697.	2.2	32
20	Deacetylation of LAMP1 drives lipophagyâ€dependent generation of free fatty acids by <i>Abrus</i> agglutinin to promote senescence in prostate cancer. Journal of Cellular Physiology, 2020, 235, 2776-2791.	4.1	30
21	Enhanced photocatalytic activity of St-ZnO nanorods for methylene blue dye degradation. Materials Letters, 2022, 311, 131637.	2.6	27
22	Bioelectricity production using plant-microbial fuel cell: Present state of art. South African Journal of Botany, 2021, 140, 393-408.	2. 5	26
23	Re-establishing the comprehension of phytomedicine and nanomedicine in inflammation-mediated cancer signaling. Seminars in Cancer Biology, 2022, 86, 1086-1104.	9.6	25
24	Self-nanoemulsifying drug delivery system (SNEDDS) mediated improved oral bioavailability of thymoquinone: optimization, characterization, pharmacokinetic, and hepatotoxicity studies. Drug Delivery and Translational Research, 2023, 13, 292-307.	5.8	25
25	Green Synthesis of Zinc Oxide Nanoparticles (ZnO NPs) Using Cissus quadrangularis: Characterization, Antimicrobial and Anticancer Studies. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2021, 91, 289-296.	1.0	24
26	Development of mushroom polysaccharide and probiotics based solid self-nanoemulsifying drug delivery system loaded with curcumin and quercetin to improve their dissolution rate and permeability: State of the art. International Journal of Biological Macromolecules, 2021, 189, 744-757.	7.5	24
27	Applications of lignin nanoparticles for cancer drug delivery: An update. Materials Letters, 2022, 311, 131573.	2.6	24
28	Nuclear factor-kappa B (NF-κB) inhibition as a therapeutic target for plant nutraceuticals in mitigating inflammatory lung diseases. Chemico-Biological Interactions, 2022, 354, 109842.	4.0	24
29	Current trends in bio-waste mediated metal/metal oxide nanoparticles for drug delivery. Journal of Drug Delivery Science and Technology, 2022, 71, 103305.	3.0	24
30	The role of HGF/MET in liver cancer. Future Medicinal Chemistry, 2021, 13, 1829-1832.	2.3	23
31	Nanomaterials in the Management of Gram-Negative Bacterial Infections. Nanomaterials, 2021, 11, 2535.	4.1	23
32	Interplay between Dysbiosis of Gut Microbiome, Lipid Metabolism, and Tumorigenesis: Can Gut Dysbiosis Stand as a Prognostic Marker in Cancer?. Disease Markers, 2022, 2022, 1-15.	1.3	23
33	Dioscin: A review on pharmacological properties and therapeutic values. BioFactors, 2022, 48, 22-55.	5 . 4	23
34	Metal-free semi-aromatic polyester as nanodrug carrier: A novel tumor targeting drug delivery vehicle for potential clinical application. Materials Science and Engineering C, 2020, 107, 110285.	7.3	22
35	Metal-free Lewis pair catalyst synergy for fully alternating copolymerization of norbornene anhydride and epoxides: Biocompatible tests for derived polymers. Materials Today Communications, 2019, 19, 306-314.	1.9	21
36	Theranostic Advances of Bionanomaterials against Gestational Diabetes Mellitus: A Preliminary Review. Journal of Functional Biomaterials, 2021, 12, 54.	4.4	21

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37	Protein and peptide delivery to lungs by using advanced targeted drug delivery. Chemico-Biological Interactions, 2022, 351, 109706.	4.0	21
38	Nutraceuticals: unlocking newer paradigms in the mitigation of inflammatory lung diseases. Critical Reviews in Food Science and Nutrition, 2023, 63, 3302-3332.	10.3	21
39	Advances in designing of polymeric micelles for biomedical application in brain related diseases. Chemico-Biological Interactions, 2022, 361, 109960.	4.0	21
40	Glycogen synthase kinase $3\hat{l}^2$ inhibitor- CHIR 99021 augments the differentiation potential of mesenchymal stem cells. Cytotherapy, 2020, 22, 91-105.	0.7	20
41	Self-nanoemulsifying composition containing curcumin, quercetin, Ganoderma lucidum extract powder and probiotics for effective treatment of type 2 diabetes mellitus in streptozotocin induced rats. International Journal of Pharmaceutics, 2022, 612, 121306.	5 . 2	20
42	Microbial approaches for sustainable remediation of dye-contaminated wastewater: a review. Archives of Microbiology, 2022, 204, 169.	2.2	20
43	Recent advancements in the cathodic catalyst for the hydrogen evolution reaction in microbial electrolytic cells. International Journal of Hydrogen Energy, 2022, 47, 15333-15356.	7.1	20
44	Environmentally benign tetramethylguanidinium cation based ionic liquids. New Journal of Chemistry, 2017, 41, 12268-12277.	2.8	19
45	Current perspectives on integrated approaches to enhance lipid accumulation in microalgae. 3 Biotech, 2021, 11, 303.	2.2	19
46	Exploiting Microbes in the Petroleum Field: Analyzing the Credibility of Microbial Enhanced Oil Recovery (MEOR). Energies, 2021, 14, 4684.	3.1	19
47	Recent Advances in Cardiac Tissue Engineering for the Management of Myocardium Infarction. Cells, 2021, 10, 2538.	4.1	19
48	DNA methylation microarray uncovers a permissive methylome for cardiomyocyte differentiation in human mesenchymal stem cells. Genomics, 2020, 112, 1384-1395.	2.9	18
49	Microbial Fuel Cell United with Other Existing Technologies for Enhanced Power Generation and Efficient Wastewater Treatment. Applied Sciences (Switzerland), 2021, 11, 10777.	2.5	18
50	Recent advances in bioelectricity generation through the simultaneous valorization of lignocellulosic biomass and wastewater treatment in microbial fuel cell. Sustainable Energy Technologies and Assessments, 2021, 48, 101572.	2.7	17
51	Recent Advances in Chronotherapy Targeting Respiratory Diseases. Pharmaceutics, 2021, 13, 2008.	4.5	16
52	Molecular Insights into Therapeutic Potentials of Hybrid Compounds Targeting Alzheimer's Disease. Molecular Neurobiology, 2022, 59, 3512-3528.	4.0	15
53	PI3K/Akt/mTOR Pathways Inhibitors with Potential Prospects in Non-Small-Cell Lung Cancer. Journal of Environmental Pathology, Toxicology and Oncology, 2022, 41, 85-102.	1.2	15
54	Current prospects and challenges of nanomedicine delivery in prostate cancer therapy. Nanomedicine, 2017, 12, 2675-2692.	3.3	14

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55	Latest Expansions in Lipid Enhancement of Microalgae for Biodiesel Production: An Update. Energies, 2022, 15, 1550.	3.1	14
56	Harnessing the therapeutic potential of fisetin and its nanoparticles: Journey so far and road ahead. Chemico-Biological Interactions, 2022, 356, 109869.	4.0	14
57	Application of Microbial Fuel Cell (MFC) for Pharmaceutical Wastewater Treatment: An Overview and Future Perspectives. Sustainability, 2022, 14, 8379.	3.2	14
58	Phytomedicines Targeting Cancer Stem Cells: Therapeutic Opportunities and Prospects for Pharmaceutical Development. Pharmaceuticals, 2021, 14, 676.	3.8	13
59	Anticancer therapeutic efficacy of biogenic Am-ZnO nanoparticles on 2D and 3D tumor models. Materials Today Chemistry, 2021, 22, 100618.	3.5	13
60	Unravelling the molecular mechanisms underlying chronic respiratory diseases for the development of novel therapeutics via in vitro experimental models. European Journal of Pharmacology, 2022, 919, 174821.	3.5	13
61	Molecular mechanisms of developmental pathways in neurological disorders: a pharmacological and therapeutic review. Open Biology, 2022, 12, 210289.	3.6	12
62	Recent Progress in Development of Dressings Used for Diabetic Wounds with Special Emphasis on Scaffolds. BioMed Research International, 2022, 2022, 1-43.	1.9	12
63	Enhancing the anti-cancer therapeutic efficacy by optimizing molecular weight of metal-free fully alternating semi-aromatic polyester as nano-drug carriers. Journal of Drug Delivery Science and Technology, 2019, 51, 101-114.	3.0	11
64	Effect of membrane biofouling on the performance of microbial electrochemical cells and mitigation strategies. Bioresource Technology Reports, 2021, 15, 100822.	2.7	11
65	Synthesis, In Silico Study, and Anti-Cancer Activity of Thiosemicarbazone Derivatives. Biomedicines, 2021, 9, 1375.	3.2	11
66	Autoantibodies and autoimmune disorders in SARS-CoV-2 infection: pathogenicity and immune regulation. Environmental Science and Pollution Research, 2022, 29, 54072-54087.	5.3	11
67	Nutraceuticals and mitochondrial oxidative stress: bridging the gap in the management of bronchial asthma. Environmental Science and Pollution Research, 2022, 29, 62733-62754.	5.3	11
68	Food-Grade Quercetin-Loaded Nanoemulsion Ameliorates Effects Associated with Parkinson's Disease and Cancer: Studies Employing a Transgenic C. elegans Model and Human Cancer Cell Lines. Antioxidants, 2022, 11, 1378.	5.1	11
69	Aptameric nanobiosensors for the diagnosis of COVID-19: An update. Materials Letters, 2022, 308, 131237.	2.6	10
70	Potential Immunomodulatory Activities of Plant Products. South African Journal of Botany, 2022, 149, 937-943.	2.5	10
71	Novel EPR-enhanced strategies for targeted drug delivery in pancreatic cancer: An update. Journal of Drug Delivery Science and Technology, 2022, 73, 103459.	3.0	10
72	Remedial Aspect of Zinc Oxide Nanoparticles Against Serratia Marcescens and Enterococcus Faecalis. Frontiers in Pharmacology, 0, 13, .	3.5	10

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73	Development and validation of RP-HPLC method for 1Î,,-Acetoxychavicol acetate (ACA) and its application in optimizing the yield of ACA during its isolation from Alpinia galanga extract as well as its quantification in nanoemulsion. South African Journal of Botany, 2022, 149, 887-898.	2.5	9
74	Synthesis and Characterization of Novel Fe3O4/PVA/Eggshell Hybrid Nanocomposite for Photodegradation and Antibacterial Activity. Journal of Composites Science, 2021, 5, 267.	3.0	9
75	Nanomaterials in Alzheimer's disease treatment: a comprehensive review. Frontiers in Bioscience, 2021, 26, 851.	2.1	9
76	Applications of drug-delivery systems targeting inflammasomes in pulmonary diseases. Nanomedicine, 2021, 16, 2407-2410.	3.3	8
77	A concise review on the cultivation of microalgal biofilms for biofuel feedstock production. Biomass Conversion and Biorefinery, 2024, 14, 7219-7236.	4.6	8
78	Synthesis and Characterization of Tetracycline Loaded Methionine-Coated NiFe2O4 Nanoparticles for Anticancer and Antibacterial Applications. Nanomaterials, 2022, 12, 2286.	4.1	8
79	Microfluidic Platforms to Unravel Mysteries of Alzheimer's Disease: How Far Have We Come?. Life, 2021, 11, 1022.	2.4	7
80	Nanotechnology-based therapeutic formulations in the battle against animal coronaviruses: an update. Journal of Nanoparticle Research, 2021, 23, 229.	1.9	7
81	Immunological Mechanisms of Vaccine-Induced Protection against SARS-CoV-2 in Humans. Immuno, 2021, 1, 442-456.	1.5	7
82	Biogenic Preparation, Characterization, and Biomedical Applications of Chitosan Functionalized Iron Oxide Nanocomposite. Journal of Composites Science, 2022, 6, 120.	3.0	7
83	Expanding arsenal against diabetes mellitus through nanoformulations loaded with glimepiride and simvastatin: A comparative study. Environmental Science and Pollution Research, 2022, 29, 51976-51988.	5.3	6
84	Overcoming hydrolytic degradation challenges in topical delivery: non-aqueous nano-emulsions. Expert Opinion on Drug Delivery, 2022, 19, 23-45.	5.0	6
85	A global comparison of implementation and effectiveness of materiovigilance program: overview of regulations. Environmental Science and Pollution Research, 2021, 28, 59608-59629.	5.3	5
86	Synthesis and characterization of novel bimetallic-semi-aromatic polyester nanocomposite for possible biomedical use. Materials Letters, 2022, 306, 130943.	2.6	5
87	A comprehensive review on enhanced production of microbial lipids for high-value applications. Biomass Conversion and Biorefinery, 2023, 13, 15357-15380.	4.6	5
88	Synthesis and characterization of biocompatible bimetallic-semi-aromatic polyester hybrid nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 633, 127845.	4.7	5
89	Repurposing chia seed oil: A versatile novel functional food. Journal of Food Science, 2022, 87, 2798-2819.	3.1	5
90	Metal-free semi-aromatic polyester: A novel nanomaterial for potential clinical application. Journal of Drug Delivery Science and Technology, 2020, 56, 101582.	3.0	4

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91	Genetic Polymorphisms and Pesticide-Induced DNA Damage: A Review. Open Biotechnology Journal, 2021, 15, 119-130.	1.2	4
92	Mitigating inflammation using advanced drug delivery by targeting TNF- $\hat{l}\pm$ in lung diseases. Future Medicinal Chemistry, 2022, 14, 57-60.	2.3	4
93	Epigenetic regulationâ^'The guardian of cellular homeostasis and lineage commitment. Biocell, 2021, 45, 501-515.	0.7	3
94	Advanced drug delivery approaches in managing TGF- \hat{l}^2 -mediated remodeling in lung diseases. Nanomedicine, 2021, 16, 2243-2247.	3.3	3
95	Pharmacological potential of JWH133, a cannabinoid type 2 receptor agonist in neurodegenerative, neurodevelopmental and neuropsychiatric diseases. European Journal of Pharmacology, 2021, 909, 174398.	3.5	3
96	Nanomedicine in Cancer Stem Cell Therapy. , 2020, , 67-105.		2
97	Potential of Zinc Oxide Nanoparticles as an Anticancer Agent: A Review. Journal of Experimental Biology and Agricultural Sciences, 2022, 10, 494-501.	0.4	2
98	Delineating the role of phytocompounds against anti-bacterial drug resistance–An update. Biocell, 2021, 45, 1465-1477.	0.7	1
99	Cannabinoid Type-2 Receptor Agonist, JWH133 May Be a Possible Candidate for Targeting Infection, Inflammation, and Immunity in COVID-19. Immuno, 2021, 1, 285-304.	1.5	1
100	Potential of microbial fuel cells for wastewater treatment. , 2021, , 115-124.		1
101	Synthesis and characterization of PCU@C-Ag/AgCl nanoparticles as an antimicrobial material for respiratory tract infection. Nanofabrication, 2021, 6, 68-78.	1.1	1
102	Occupational health hazards and wide spectrum of genetic damage by the organic solvent fumes at the workplace: A critical appraisal. Environmental Science and Pollution Research, 2022, , 1.	5.3	1
103	Specifics of the methodological approach to the study of nanoparticle impact on human health in the production of non-metallic nanomaterials for construction purposes. IOP Conference Series: Earth and Environmental Science, 2018, 107, 012048.	0.3	O
104	Cancer risk and nullity of Glutathione-S-transferase mu and theta 1 in occupational pesticide workers. Current Pharmaceutical Biotechnology, 2021, 22, .	1.6	0
105	HIGH-THROUGHPUT SEQUENCING ANALYSIS OF MICROBIAL POPULATIONS IN ARCTIC ROCK SAMPLE., 2018, , .		O
106	HIGH-THROUGHPUT SEQUENCING ANALYSIS OF MICROBIAL POPULATIONS IN ARCTIC ROCK SAMPLE. SWS Journal of EARTH and PLANETARY SCIENCES, 2019, 1, 29-38.	0.1	0
107	Importance of biofilters in heavy metal removal: Fundamental to recent advances., 2022,, 1-18.		O
108	Synthesis, Characterization and Remedial Action of Biogenic Silver Nanoparticles and Chitosan-Silver Nanoparticles against Bacterial Pathogens. Journal of Renewable Materials, 2022, 10, 1-13.	2.2	0

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109	Genome-wide methylome pattern predictive network analysis reveal mesenchymal stem cell's propensity to undergo cardiovascular lineage. 3 Biotech, 2022, 12, 12.	2.2	0