

Sharadwata Pan

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,072
citations

471061

17
h-index

476904

29
g-index

68
all docs

68
docs citations

68
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of immobilized enzyme technologies for dye and phenolic removal from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102961.	3.3	175
2	Bioprocessing of Functional Ingredients from Flaxseed. <i>Molecules</i> , 2018, 23, 2444.	1.7	79
3	Microalgae for biobutanol production – Technology evaluation and value proposition. <i>Algal Research</i> , 2018, 31, 367-376.	2.4	57
4	Structure-informed separation of bioactive peptides. <i>Journal of Food Biochemistry</i> , 2019, 43, e12765.	1.2	41
5	Synthesis approach-dependent antiviral properties of silver nanoparticles and nanocomposites. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 809-831.	5.3	40
6	Universal solvent quality crossover of the zero shear rate viscosity of semidilute DNA solutions. <i>Journal of Rheology</i> , 2014, 58, 339-368.	1.3	37
7	Bioactive components from <i>Moringa oleifera</i> seeds: production, functionalities and applications – a critical review. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 271-293.	5.1	34
8	Vesicle formation mechanisms: an overview. <i>Journal of Liposome Research</i> , 2021, 31, 90-111.	1.5	32
9	Aptamers: an emerging class of bioaffinity ligands in bioactive peptide applications. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 1195-1206.	5.4	29
10	Cardiovascular therapies utilizing targeted delivery of nanomedicines and aptamers. <i>International Journal of Pharmaceutics</i> , 2019, 558, 413-425.	2.6	25
11	Therapeutic Applications of Metal and Metal-Oxide Nanoparticles: Dermato-Cosmetic Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 724499.	2.0	25
12	Shear thinning in dilute and semidilute solutions of polystyrene and DNA. <i>Journal of Rheology</i> , 2018, 62, 845-867.	1.3	24
13	Risks and toxicity of nanoparticles and nanostructured materials. , 2018, , 121-139.		24
14	Nonlinearities and shear banding instability of polyacrylamide solutions under large amplitude oscillatory shear. <i>Journal of Rheology</i> , 2017, 61, 1061-1083.	1.3	23
15	A Proposal for a Quality System for Herbal Products. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 4230-4241.	1.6	21
16	Structure-informed detection and quantification of peptides in food and biological fluids. <i>Journal of Food Biochemistry</i> , 2019, 43, e12482.	1.2	21
17	Viscosity Radius of Polymers in Dilute Solutions: Universal Behavior from DNA Rheology and Brownian Dynamics Simulations. <i>Macromolecules</i> , 2014, 47, 7548-7560.	2.2	20
18	Linear viscoelastic and microstructural properties of native male human skin and in vitro 3D reconstructed skin models. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 644-654.	1.5	20

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19	Characterisation of aptamer-anchored poly(EDMA-co-GMA) monolith for high throughput affinity binding. <i>Scientific Reports</i> , 2019, 9, 14501.	1.6	19
20	Double-stranded and single-stranded well-entangled DNA solutions under LAOS: A comprehensive study. <i>Polymer</i> , 2018, 140, 240-254.	1.8	18
21	Engineered nanomaterials for wastewater treatment: current and future trends. , 2018, , 129-168.		18
22	Medical applications of biopolymer nanofibers. <i>Biomaterials Science</i> , 2022, 10, 4107-4118.	2.6	16
23	Nutritional quality and bioactive properties of proteins and peptides from microalgae. , 2020, , 493-531.		15
24	3D graphene-based adsorbents: Synthesis, proportional analysis and potential applications in oil elimination. <i>Chemosphere</i> , 2022, 287, 132129.	4.2	15
25	Thermal and mechanical properties of industrial benchmark lipstick prototypes. <i>Thermochimica Acta</i> , 2019, 679, 178332.	1.2	13
26	Benefits of Algal Extracts in Sustainable Agriculture. <i>Grand Challenges in Biology and Biotechnology</i> , 2019, , 501-534.	2.4	13
27	Antioxidative Peptides Derived from Food Proteins. , 2015, , 417-430.		13
28	Biofuel production from algal biomass. , 2018, , 87-118.		13
29	The Bioeconomy of Microalgal Biofuels. <i>Green Energy and Technology</i> , 2018, , 157-169.	0.4	12
30	Nonlinear viscoelastic properties of native male human skin and in vitro 3D reconstructed skin models under LAOS stress. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 310-323.	1.5	12
31	Date Palm Based Activated Carbon for the Efficient Removal of Organic Dyes from Aqueous Environment. <i>Sustainable Agriculture Reviews</i> , 2019, , 247-263.	0.6	12
32	Buffered λ -DNA solutions at high shear rates. <i>Journal of Rheology</i> , 2021, 65, 159-169.	1.3	12
33	An innovative monolithic column preparation for the isolation of 25kilo base pairs DNA. <i>Journal of Chromatography A</i> , 2013, 1318, 156-162.	1.8	11
34	Nanoformulation and Application of Phytochemicals as Antimicrobial Agents. , 2017, , 61-82.		11
35	Binding Characterization of Aptamer-Drug Layered Microformulations and In Vitro Release Assessment. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2934-2941.	1.6	10
36	A Proposal for Six Sigma Integration for Large-Scale Production of Penicillin G and Subsequent Conversion to 6-APA. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-10.	0.7	8

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37	Peptides for biopharmaceutical applications. , 2018, , 231-251.		8
38	Aptamer-navigated copolymeric drug carrier system for in vitro delivery of MgO nanoparticles as insulin resistance reversal drug candidate in Type 2 diabetes. Journal of Drug Delivery Science and Technology, 2020, 57, 101764.	1.4	8
39	Mechanical response of industrial benchmark lipsticks under large-scale deformations. Acta Mechanica, 2020, 231, 3031-3042.	1.1	8
40	Metal Oxide Nanocomposites: Cytotoxicity and Targeted Drug Delivery Applications. , 2019, , 111-166.		8
41	Process Development for Bioactive Peptide Production. , 2017, , 91-110.		7
42	Plant-Derived Nanobiomaterials as a Potential Next Generation Dental Implant Surface Modifier. Frontiers in Materials, 2021, 8, .	1.2	7
43	Polysaccharide-based skin scaffolds with enhanced mechanical compatibility with native human skin. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 122, 104607.	1.5	7
44	Bioactivity Profiling of Peptides From Food Proteins. , 2017, , 49-77.		5
45	Candidate Formulations for a Sustainable Lipstick Supplemented with Vitamin D3: Effects of Wax Type and Concentration on Material Properties. Industrial & Engineering Chemistry Research, 2021, 60, 2027-2040.	1.8	5
46	Aptameric Sensing in Food Safety. , 2018, , 259-277.		4
47	Three-Dimensional Graphene-Based Macroscopic Assemblies as Super-Absorbents for Oils and Organic Solvents. , 2019, , 43-68.		4
48	Effects of growth regulators on in vitro response and multiple shoot induction in some endangered medicinal plants. OA Biotechnology, 2013, 2, .	0.5	4
49	Uniaxial extensional viscosity of semidilute DNA solutions. Korea Australia Rheology Journal, 2019, 31, 255-266.	0.7	3
50	Biomass-derived microporous adsorbents for selective CO2 capture. , 2021, , 661-679.		3
51	Drug delivery systems for cardiovascular ailments. , 2021, , 567-599.		3
52	Endophytes: The Unmapped Repository for Natural Products. , 2019, , 41-70.		3
53	Graphene-based macromolecular assemblies as high-performance absorbents for oil and chemical spills response and cleanup. Journal of Environmental Chemical Engineering, 2022, 10, 107586.	3.3	3
54	Modern Taxonomy for Microbial Diversity. , 2014, , .		2

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55	Designer Foods: Scope for Enrichment With Microbe-Sourced Antioxidants. , 2017, , 423-449.		2
56	Grapheneâ€Based Macromolecular Assemblies for Scavenging Heavy Metals. ChemistryOpen, 2020, 9, 1065-1073.	0.9	2
57	Challenges in the Risk Assessment of Nanomaterial Toxicity Towards Microbes. , 2021, , 58-93.		2
58	Modeling the Mitogen Activated Protein (MAP)-Kinase Pathway Using Ordinary Differential Equations. Computational Biology and Bioinformatics, 2013, 1, 6.	0.3	2
59	Parametric Investigation of Batch Adsorption of Proteins onto Polymeric Particles. Current Pharmaceutical Biotechnology, 2015, 16, 816-822.	0.9	1
60	Biomedical and Environmental Applications of Waterborne Polyurethane-Metal Oxide Nanocomposites. Advances in Science, Technology and Innovation, 2021, , 179-192.	0.2	1
61	Bionanotechnology and Bionanomaterials. , 2022, , 3-44.		1
62	Cell Surface Display. , 0, , .		0
63	ADMiER-ing thin but complex fluids. , 2011, , .		0
64	Potential risk and safety concern of nanomaterials used for wastewater treatment. , 2021, , 59-83.		0
65	Bio-active Peptides: Role in Plant Growth and Defense. , 2019, , 1-29.		0
66	Essential Oils: An Update on Their Biosynthesis and Genetic Strategies to Overcome the Production Challenges. , 2020, , 33-60.		0
67	New strategies in microbial screening for novel chemotherapeutics. , 2022, , 441-453.		0