

Lalit Mohan Pandey

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

3,390
citations

117453

34
h-index

161609

54
g-index

119
all docs

119
docs citations

119
times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered nanomaterials and their surface functionalization for the removal of heavy metals: A review. <i>Journal of Water Process Engineering</i> , 2020, 33, 101009.	2.6	187
2	Nano-biocomposite scaffolds of chitosan, carboxymethyl cellulose and silver nanoparticle modified cellulose nanowhiskers for bone tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 923-934.	3.6	179
3	Recent advances in conventional and contemporary methods for remediation of heavy metal-contaminated soils. <i>3 Biotech</i> , 2018, 8, 216.	1.1	124
4	Isolation and characterization of biosurfactant producing and oil degrading <i>Bacillus subtilis</i> MG495086 from formation water of Assam oil reservoir and its suitability for enhanced oil recovery. <i>Bioresource Technology</i> , 2018, 270, 439-448.	4.8	111
5	Enhanced adsorption capacity of designed bentonite and alginate beads for the effective removal of methylene blue. <i>Applied Clay Science</i> , 2019, 169, 102-111.	2.6	111
6	Removal of methylene blue dye from aqueous solution using immobilized <i>Agrobacterium fabrum</i> biomass along with iron oxide nanoparticles as biosorbent. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21605-21615.	2.7	108
7	Fabrication and characterization of chitosan, polyvinylpyrrolidone, and cellulose nanowhiskers nanocomposite films for wound healing drug delivery application. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2391-2404.	2.1	107
8	Engineered Nanomaterial Assisted Signal Amplification Strategies for Enhancing Analytical Performance of Electrochemical Biosensors. <i>Electroanalysis</i> , 2019, 31, 1615-1629.	1.5	102
9	Surface Functionalization of Ti6Al4V via Self-assembled Monolayers for Improved Protein Adsorption and Fibroblast Adhesion. <i>Langmuir</i> , 2018, 34, 3494-3506.	1.6	97
10	Production of biosurfactant by <i>Bacillus subtilis</i> RSL-2 isolated from sludge and biosurfactant mediated degradation of oil. <i>Bioresource Technology</i> , 2020, 307, 123261.	4.8	92
11	Effect of Functional Groups of Self-Assembled Monolayers on Protein Adsorption and Initial Cell Adhesion. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3224-3233.	2.6	74
12	Hybrid surface from self-assembled layer and its effect on protein adsorption. <i>Applied Surface Science</i> , 2011, 257, 4731-4737.	3.1	66
13	Properties of Adsorbed Bovine Serum Albumin and Fibrinogen on Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6151-6160.	1.5	64
14	Engineered nanoporous materials mediated heterogeneous catalysts and their implications in biodiesel production. <i>Materials Science for Energy Technologies</i> , 2018, 1, 11-21.	1.0	60
15	Kinetic studies of attachment and re-orientation of octyltriethoxysilane for formation of self-assembled monolayer on a silica substrate. <i>Materials Science and Engineering C</i> , 2016, 68, 423-429.	3.8	58
16	Synthesis, characterization and in vitro analysis of $\text{Fe}_2\text{O}_3\text{-GdFeO}_3$ biphasic materials as therapeutic agent for magnetic hyperthermia applications. <i>Materials Science and Engineering C</i> , 2018, 92, 932-941.	3.8	58
17	A novel bio-sorbent comprising encapsulated <i>Agrobacterium fabrum</i> (SLAJ731) and iron oxide nanoparticles for removal of crude oil co-contaminant, lead Pb(II). <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 442-452.	3.3	56
18	Conformational and Organizational Insights into Serum Proteins during Competitive Adsorption on Self-Assembled Monolayers. <i>Langmuir</i> , 2018, 34, 8178-8194.	1.6	56

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19	Review: Polymers, Surface-Modified Polymers, and Self Assembled Monolayers as Surface-Modifying Agents for Biomaterials. <i>Polymer-Plastics Technology and Engineering</i> , 2015, 54, 1358-1378.	1.9	54
20	Production of novel rhamnolipids via biodegradation of waste cooking oil using <i>Pseudomonas aeruginosa</i> MTCC7815. <i>Biodegradation</i> , 2019, 30, 301-312.	1.5	54
21	Nanoengineered material based biosensing electrodes for enzymatic biofuel cells applications. <i>Materials Science for Energy Technologies</i> , 2018, 1, 38-48.	1.0	53
22	Design and characterization of novel Al-doped ZnO nanoassembly as an effective nanoantibiotic. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 1925-1941.	1.6	52
23	Surface chemistry at the nanometer scale influences insulin aggregation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 100, 69-76.	2.5	49
24	Oil washing proficiency of biosurfactant produced by isolated <i>Bacillus tequilensis</i> MK 729017 from Assam reservoir soil. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107612.	2.1	49
25	Crude oil degradation and biosurfactant production abilities of isolated <i>Agrobacterium fabrum</i> SLAJ731. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101322.	1.5	48
26	Edible oil nanoemulsion: An organic nanoantibiotic as a potential biomolecule delivery vehicle. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018, 67, 410-419.	1.8	47
27	Effect of Zn/ZnO integration with hydroxyapatite: a review. <i>Materials Technology</i> , 2018, 33, 79-92.	1.5	47
28	Laser cladding with HA and functionally graded TiO ₂ -HA precursors on Ti-6Al-4V alloy for enhancing bioactivity and cyto-compatibility. <i>Surface and Coatings Technology</i> , 2018, 352, 420-436.	2.2	45
29	Mechano-tribological properties and in vitro bioactivity of biphasic calcium phosphate coating on Ti-6Al-4V. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 143-157.	1.5	43
30	Design of engineered surfaces for prospective detection of SARS-CoV-2 using quartz crystal microbalance-based techniques. <i>Expert Review of Proteomics</i> , 2020, 17, 425-432.	1.3	42
31	Properties of competitively adsorbed BSA and fibrinogen from their mixture on mixed and hybrid surfaces. <i>Applied Surface Science</i> , 2013, 264, 832-837.	3.1	41
32	Yttrium iron garnet for hyperthermia applications: Synthesis, characterization and in-vitro analysis. <i>Materials Science and Engineering C</i> , 2020, 116, 111163.	3.8	40
33	Surface engineering of personal protective equipments (PPEs) to prevent the contagious infections of SARS-CoV-2. <i>Surface Engineering</i> , 2020, 36, 901-907.	1.1	39
34	Surface engineering of nano-sorbents for the removal of heavy metals: Interfacial aspects. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104586.	3.3	39
35	Experimental investigation of molasses as a sole nutrient for the production of an alternative metabolite biosurfactant. <i>Journal of Water Process Engineering</i> , 2020, 38, 101632.	2.6	38
36	Bimetallic assembly of Fe(III) doped ZnO as an effective nanoantibiotic and its ROS independent antibacterial mechanism. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 57, 126416.	1.5	36

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37	Relation between the Wetting Effect and the Adsorbed Amount of Water-Soluble Polymers or Proteins at Various Interfaces. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 3440-3446.	1.0	35
38	Deposition of biphasic calcium phosphate film on laser surface textured Ti-6Al-4V and its effect on different biological properties for orthopedic applications. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155683.	2.8	34
39	Coating of bioactive glass on magnesium alloys to improve its degradation behavior: Interfacial aspects. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 999-1015.	5.5	34
40	3D printing for cardiovascular tissue engineering: a review. <i>Materials Technology</i> , 2018, 33, 433-442.	1.5	31
41	Proline functionalized gold nanoparticles modulates lysozyme fibrillation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 401-408.	2.5	27
42	Application of bimetallic Al-doped ZnO nano-assembly for heavy metal removal and decontamination of wastewater. <i>Water Science and Technology</i> , 2019, 80, 2067-2078.	1.2	26
43	Neuronal SNARE complex: A protein folding system with intricate protein-protein interactions, and its common neuropathological hallmark, SNAP25. <i>Neurochemistry International</i> , 2019, 122, 196-207.	1.9	26
44	Antibacterial nano-biocomposite scaffolds of Chitosan, Carboxymethyl Cellulose and Zn & Fe integrated Hydroxyapatite (Chitosan-CMC-FZO@HAp) for bone tissue engineering. <i>Cellulose</i> , 2021, 28, 9207-9226.	2.4	26
45	Therapeutic Advancement in Alzheimer Disease: New Hopes on the Horizon?. <i>CNS and Neurological Disorders - Drug Targets</i> , 2018, 17, 571-589.	0.8	26
46	Fe(III) doped ZnO nano-assembly as a potential heterogeneous nano-catalyst for the production of biodiesel. <i>Materials Letters</i> , 2019, 237, 232-235.	1.3	25
47	Surface modification of Ti6Al4V by forming hybrid self-assembled monolayers and its effect on collagen-I adsorption, osteoblast adhesion and integrin expression. <i>Applied Surface Science</i> , 2020, 505, 144611.	3.1	25
48	Surface Design for Immobilization of an Antimicrobial Peptide Mimic for Efficient Anti-Biofouling. <i>Chemistry - A European Journal</i> , 2020, 26, 5789-5793.	1.7	25
49	Performance study of a sterilization box using a combination of heat and ultraviolet light irradiation for the prevention of COVID-19. <i>Environmental Research</i> , 2021, 198, 111309.	3.7	24
50	Biofilm formation and electron transfer in bioelectrochemical systems. <i>Environmental Technology Reviews</i> , 2018, 7, 220-234.	2.1	23
51	Self-Assembly of Minimal Peptoid Sequences. <i>ACS Macro Letters</i> , 2020, 9, 494-499.	2.3	21
52	Thermomechanical process induces unfolding and fibrillation of bovine serum albumin. <i>Food Hydrocolloids</i> , 2021, 112, 106294.	5.6	21
53	Superhydrophobic Self-Cleaning Composite of a Metal-Organic Framework with Polypropylene Fabric for Efficient Removal of Oils from Oil-Water Mixtures and Emulsions. <i>ACS Applied Nano Materials</i> , 2022, 5, 10003-10014.	2.4	21
54	Effect of surface functionalization on the heating efficiency of magnetite nanoclusters for hyperthermia application. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157248.	2.8	20

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55	Degradation kinetics and surface properties of bioceramic hydroxyapatite coated AZ31 magnesium alloys for biomedical applications. <i>Materials Letters</i> , 2020, 270, 127732.	1.3	19
56	Enhanced melanoidin removal by amine-modified <i>Phyllanthus emblica</i> leaf powder. <i>Bioresource Technology</i> , 2021, 339, 125572.	4.8	19
57	A comparative investigation of normal and inverted exchange bias effect for magnetic fluid hyperthermia applications. <i>Scientific Reports</i> , 2020, 10, 18666.	1.6	18
58	Integration of biological control with engineered heterojunction nano-photocatalysts for sustainable and effective management of water hyacinth weed. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106976.	3.3	18
59	Chain-End Modifications and Sequence Arrangements of Antimicrobial Peptoids for Mediating Activity and Nano-Assembly. <i>Frontiers in Chemistry</i> , 2020, 8, 416.	1.8	17
60	Effect of polymer surfactant structure on its solution viscosity. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011, 6, 78-84.	0.8	16
61	Deciphering the mechanistic insight into the stoichiometric ratio dependent behavior of Cu(II) on BSA fibrillation. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 662-670.	3.6	16
62	Lipopeptide and essential oil based nanoemulsion for controlled drug delivery. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 2076-2086.	0.6	16
63	Bulk synthesis of tungsten-oxide nanomaterials by a novel, plasma chemical reactor configuration, studies on their performance for waste-water treatment and hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2022, 428, 131111.	6.6	16
64	Biodegradation of waste cooking oil and simultaneous production of rhamnolipid biosurfactant by <i>Pseudomonas aeruginosa</i> P7815 in batch and fed-batch bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 309-319.	1.7	16
65	Self-assembled monolayers in biomaterials. , 2018, , 137-178.		15
66	Effect of TiO ₂ addition on adhesion and biological behavior of BCP-TiO ₂ composite films deposited by magnetron sputtering. <i>Materials Science and Engineering C</i> , 2020, 114, 111033.	3.8	15
67	Synthesis of finest superparamagnetic carbon-encapsulated magnetic nanoparticles by a plasma expansion method for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2018, 749, 768-775.	2.8	13
68	Hydroxyapatite: an inorganic ceramic for biomedical applications. , 2019, , 205-249.		13
69	Physicochemical factors of bioprocessing impact the stability of therapeutic proteins. <i>Biotechnology Advances</i> , 2022, 55, 107909.	6.0	12
70	Biodegradation kinetics of binary mixture of hexadecane and phenanthrene by the bacterial microconsortium. <i>Bioresource Technology</i> , 2022, 358, 127408.	4.8	12
71	Synthesis, characterization and antibacterial activity of aluminum doped zinc oxide. <i>Materials Today: Proceedings</i> , 2019, 18, 1388-1400.	0.9	11
72	Shear-induced aggregation of amyloid β (1-40) in a parallel plate geometry. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 6415-6423.	2.0	10

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73	Green synthesis of Ag doped ZnO nanoparticles: study of their structural, optical, thermal and antibacterial properties. <i>Materials Technology</i> , 2022, 37, 2785-2794.	1.5	10
74	The effect of the stoichiometric ratio of zinc towards the fibrillation of Bovine Serum Albumin (BSA): A mechanistic insight. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 409-419.	3.6	9
75	Physical, chemical, and biological investigations of composites for biomedical applications. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1790-1808.	1.9	9
76	Microstructural, electrical and biological activity in $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2\text{-Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ ceramic composites designed for tissue engineering applications. <i>Scientific Reports</i> , 2021, 11, 22304.	1.6	8
77	Hydrophobic Surface Induced Biosorption and Microbial Ex Situ Remediation of Oil-Contaminated Sites. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9378-9388.	1.8	6
78	Functionalized Biogenic Nanoparticles for use in Emerging Biomedical Applications: A Review. <i>Current Nanomaterials</i> , 2020, 05, .	0.2	6
79	Prospective of fungal pathogen-based bioherbicides for the control of water hyacinth: A review. <i>Journal of Basic Microbiology</i> , 2022, 62, 415-427.	1.8	6
80	Design of antibiofilm surfaces by immobilization of biogenic silver nanoparticles on amine self-assembled monolayers. <i>Materials Letters</i> , 2022, 311, 131574.	1.3	6
81	Photocatalytic metal nanoparticles: a green approach for degradation of dyes. , 2021, , 251-275.		5
82	Design and characterization of biphasic ferric hydroxyapatite-zincite nanoassembly for bone tissue engineering. <i>Ceramics International</i> , 2021, 47, 28274-28287.	2.3	5
83	Decontamination of distillery spent wash through advanced oxidation methods. , 2021, , 103-117.		4
84	Plant-polyphenol-mediated synthesis of iron oxide nanomaterials for heavy metal removal. , 2021, , 115-129.		4
85	Integration of biosorption and biodegradation in a fed-batch mode for the enhanced crude oil remediation. <i>Letters in Applied Microbiology</i> , 2021, 73, 471-476.	1.0	4
86	Experimental investigation on suitability of Surfactin for enhanced oil recovery: Stability, adsorption equilibrium and kinetics studies. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107083.	3.3	4
87	Engineered Drug Delivery Systems: Insights of Biointerface. , 2020, , 1-30.		3
88	Single-step, DC thermal plasma-assisted synthesis of Ag-C nanocomposites with less than 10 nm sizes for antibacterial applications. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 365201.	1.3	3
89	Novel Nanoengineered Materials-Based Catalysts for Various Bioelectrochemical Systems. <i>ACS Symposium Series</i> , 2020, , 45-71.	0.5	3
90	A comparative study of microstructural, biological, and mechanical properties in 20H-80B and 20H-80S composite scaffolds. <i>Materials Letters</i> , 2021, 304, 130668.	1.3	3

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91	Microstructural, interfacial, biological and electrical activity in sputtered Hydroxyapatite-Barium strontium titanate bilayered thin films. <i>Surfaces and Interfaces</i> , 2022, 31, 102063.	1.5	3
92	Nano Hydroxyapatite (Nano-Hap): A Potential Bioceramic For Biomedical Applications. <i>Current Nanomaterials</i> , 2021, 06, .	0.2	2
93	Identification of Various Metabolites like Gases, Biopolymers and Biosurfactants. <i>Green Energy and Technology</i> , 2022, , 197-220.	0.4	2
94	Recent Case Studies of In-Situ and Ex-Situ Microbial Enhanced Oil Recovery. <i>Green Energy and Technology</i> , 2022, , 243-260.	0.4	2
95	Secondary and Tertiary Oil Recovery Processes. <i>Green Energy and Technology</i> , 2022, , 23-50.	0.4	2
96	Oil and petrochemical industries wastewater treatment in bioelectrochemical systems. , 2020, , 157-173.		2
97	Iron Oxide based Magnetic Nanomaterials for Biomedical Applications. <i>Materials Research Foundations</i> , 2020, , 276-322.	0.2	1
98	CO ₂ -Based Enhanced Oil Recovery. <i>Green Energy and Technology</i> , 2022, , 51-71.	0.4	1
99	Design of Consortium for the Production of Desired Metabolites. <i>Green Energy and Technology</i> , 2022, , 179-195.	0.4	1
100	Optimization of Culture Conditions for the Production of Biosurfactants. <i>Green Energy and Technology</i> , 2022, , 149-178.	0.4	1
101	Sustainability Assessment of Microbial Fuel Cells. , 2019, , 313-330.		1
102	Nanomaterial-based hydrogels for coronary interventions: a mini review. <i>Mini-invasive Surgery</i> , 0, , .	0.2	1
103	Novel Therapeutics and Diagnostics Strategies Based on Engineered Nanobiomaterials. , 2019, , 1-27.		0
104	Microbial Biosurfactants Remediation of Contaminated Soils. , 2021, , 160-173.		0
105	Implications of the Nanoscopic Surface Modification on the Protein Adsorption and Cell Adhesion. <i>Nanotechnology in the Life Sciences</i> , 2021, , 423-460.	0.4	0
106	Synthesis and Sintering of Calcium Hydroxyapatite for Biomedical Applications. , 2021, , .		0
107	Core Flooding Studies Using Microbial Systems. <i>Green Energy and Technology</i> , 2022, , 221-241.	0.4	0
108	Screening of Extremophiles for Microbial Enhanced Oil Recovery Based on Surface Active Properties. <i>Green Energy and Technology</i> , 2022, , 101-121.	0.4	0

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109	Effect of Reservoir Environmental Conditions and Inherent Microorganisms. Green Energy and Technology, 2022, , 123-148.	0.4	0
110	Optimum Formulation of Chemical Slug and Core Flooding Studies. Green Energy and Technology, 2022, , 73-99.	0.4	0
111	Nano-sorbents-assisted microbial bioremediation of hazardous petroleum hydrocarbons. , 2020, , 233-247.		0
112	Influence of medium based dipolar interaction in relaxation mechanism and self-heating efficiency of MWCNT/MnFe ₂ O ₄ nanocomposite. Materials Chemistry and Physics, 2022, 288, 126374.	2.0	0