

# Periasamy Anbu

## List of Publications by Year in descending order

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79  
papers

2,391  
citations

201385

27  
h-index

223531

46  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formations of calcium carbonate minerals by bacteria and its multiple applications. SpringerPlus, 2016, 5, 250.	1.2	425
2	Biotechnological Processes in Microbial Amylase Production. BioMed Research International, 2017, 2017, 1-9.	0.9	113
3	Extracellular enzymatic activity profiles in fungi isolated from oil-rich environments. Mycoscience, 2005, 46, 119-126.	0.3	101
4	Strategies to Characterize Fungal Lipases for Applications in Medicine and Dairy Industry. BioMed Research International, 2013, 2013, 1-10.	0.9	87
5	Temperature-dependent green biosynthesis and characterization of silver nanoparticles using balloon flower plants and their antibacterial potential. Journal of Molecular Structure, 2019, 1177, 302-309.	1.8	76
6	Biotechnological Aspects and Perspective of Microbial Keratinase Production. BioMed Research International, 2015, 2015, 1-10.	0.9	70
7	Gold nano-urchin integrated label-free amperometric aptasensing human blood clotting factor IX: A prognosticative approach for "Royal disease". Biosensors and Bioelectronics, 2019, 131, 128-135.	5.3	70
8	Eco-friendly synthesis of Solanum trilobatum extract-capped silver nanoparticles is compatible with good antimicrobial activities. Journal of Molecular Structure, 2018, 1160, 80-91.	1.8	69
9	Keratinophilic fungi of poultry farm and feather dumping soil in Tamil Nadu, India. Mycopathologia, 2004, 158, 303-309.	1.3	57
10	Purification, characterization and crystallization of an extracellular alkaline protease from <i>Aspergillus nidulans</i> . Journal of Basic Microbiology, 2008, 48, 347-352.	1.8	55
11	Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities. PLoS ONE, 2016, 11, e0157612.	1.1	55
12	Phyto-Mediated Photo Catalysed Green Synthesis of Silver Nanoparticles Using Durio Zibethinus Seed Extract: Antimicrobial and Cytotoxic Activity and Photocatalytic Applications. Molecules, 2018, 23, 3311.	1.7	55
13	Bioinspired Zinc Oxide Nanoparticles Using Lycopersicon esculentum for Antimicrobial and Anticancer Applications. Journal of Cluster Science, 2019, 30, 1465-1479.	1.7	50
14	Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. Analytica Chimica Acta, 2020, 1094, 142-150.	2.6	46
15	Extracellular keratinase from Trichophyton sp. HA-2 isolated from feather dumping soil. International Biodeterioration and Biodegradation, 2008, 62, 287-292.	1.9	45
16	Microbial Enzymes and Their Applications in Industries and Medicine 2014. BioMed Research International, 2015, 2015, 1-3.	0.9	43
17	Assorted micro-scale interdigitated aluminium electrode fabrication for insensitive electrolyte evaluation: zeolite nanoparticle-mediated micro- to nano-scaled electrodes. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	41
18	Microbial Enzymes and Their Applications in Industries and Medicine 2016. BioMed Research International, 2017, 2017, 1-3.	0.9	40

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19	Chitosan-coated silver nanoparticles promoted antibacterial, antibiofilm, wound-healing of murine macrophages and antiproliferation of human breast cancer MCF 7 cells. <i>Polymer Testing</i> , 2020, 90, 106675.	2.3	40
20	Characterization of solvent stable extracellular protease from <i>Bacillus koreensis</i> (BK-P21A). <i>International Journal of Biological Macromolecules</i> , 2013, 56, 162-168.	3.6	36
21	&lt;p&gt;Glucose oxidase complexed gold-graphene nanocomposite on a dielectric surface for glucose detection: a strategy for gestational diabetes mellitus&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7851-7860.	3.3	34
22	Microbial Enzymes and Their Applications in Industries and Medicine. <i>BioMed Research International</i> , 2013, 2013, 1-2.	0.9	33
23	Preparation of cotton fabric using sodium alginate-coated nanoparticles to protect against nosocomial pathogens. <i>Biochemical Engineering Journal</i> , 2017, 117, 28-35.	1.8	32
24	Complementation of ELISA and an Interdigitated Electrode Surface in Gold Nanoparticle Functionalization for Effective Detection of Human Blood Clotting Defects. <i>Nanoscale Research Letters</i> , 2019, 14, 222.	3.1	31
25	Synthesis of gold nanoparticles using <i>Platycodon grandiflorum</i> extract and its antipathogenic activity under optimal conditions. <i>Nanomaterials and Nanotechnology</i> , 2020, 10, 184798042096169.	1.2	31
26	Production and characterization of silica nanoparticles from fly ash: conversion of agro-waste into resource. <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 86-95.	1.0	31
27	A DNA based visual and colorimetric aggregation assay for the early growth factor receptor (EGFR) mutation by using unmodified gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 546.	2.5	28
28	Green Synthesis and Characterization of Silver Nanoparticles Using <i>Spondias mombin</i> Extract and Their Antimicrobial Activity against Biofilm-Producing Bacteria. <i>Molecules</i> , 2021, 26, 2681.	1.7	26
29	Photovoltaic and antimicrobial potentials of electrodeposited copper nanoparticle. <i>Biochemical Engineering Journal</i> , 2019, 142, 97-104.	1.8	24
30	Engineered nanostructures to carry the biological ligands. <i>MATEC Web of Conferences</i> , 2018, 150, 06002.	0.1	23
31	Isolation of an organic solvent-tolerant bacterium <i>Bacillus licheniformis</i> PAL05 that is able to secrete solvent-stable lipase. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 528-534.	1.4	20
32	Isolation of hydroquinone (benzene-1,4-diol) metabolite from halotolerant <i>Bacillus methylotrophicus</i> MHC10 and its inhibitory activity towards bacterial pathogens. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 429-439.	1.7	20
33	Cellulose nanoparticles encapsulated cow urine for effective inhibition of pathogens. <i>Powder Technology</i> , 2018, 328, 140-147.	2.1	20
34	Identification of $\beta$ -9-elongation activity from <i>Thraustochytrium aureum</i> by heterologous expression in <i>Pichia pastoris</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 524-532.	1.4	18
35	Biosequestration of copper by bacteria isolated from an abandoned mine by using microbially induced calcite precipitation. <i>Journal of General and Applied Microbiology</i> , 2016, 62, 206-212.	0.4	18
36	Antimicrobial activity of functionalized single-walled carbon nanotube with herbal extract of <i>Hempedu bumi</i> . <i>Surface and Interface Analysis</i> , 2018, 50, 354-361.	0.8	18

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37	Aluminosilicate Nanocomposites from Incinerated Chinese Holy Joss Fly Ash: A Potential Nanocarrier for Drug Cargos. <i>Scientific Reports</i> , 2020, 10, 3351.	1.6	18
38	Characterization and Antibacterial Response of Silver Nanoparticles Biosynthesized Using an Ethanolic Extract of <i>Coccinia indica</i> Leaves. <i>Crystals</i> , 2021, 11, 97.	1.0	18
39	Aluminosilicate Nanocomposite on Genosensor: A Prospective Voltammetry Platform for Epidermal Growth Factor Receptor Mutant Analysis in Non-small Cell Lung Cancer. <i>Scientific Reports</i> , 2019, 9, 17013.	1.6	17
40	Production of alkaline protease from a newly isolated <i>Exiguobacterium profundum</i> BK-P23 evaluated using the response surface methodology. <i>Biologia (Poland)</i> , 2013, 68, 186-193.	0.8	16
41	Synthesis and characterization of reduced graphene oxide using the aqueous extract of <i>Eclipta prostrata</i> . <i>3 Biotech</i> , 2020, 10, 364.	1.1	16
42	<i>Durio zibethinus</i> rind extract mediated green synthesis of silver nanoparticles: Characterization and biomedical applications. <i>Pharmacognosy Magazine</i> , 2019, 15, 52.	0.3	16
43	Coexpression of Elo-like enzyme and $\Delta^5, \Delta^4$ -desaturases derived from <i>Thraustochytrium aureum</i> ATCC 34304 and the production of DHA and DPA in <i>Pichia pastoris</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 483-490.	1.4	15
44	The effects of culture condition on the growth property and docosahexaenoic acid production from <i>Thraustochytrium aureum</i> ATCC 34304. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1211-1215.	1.2	15
45	Production and characterization of graphene from carbonaceous rice straw by cost-effect extraction. <i>3 Biotech</i> , 2021, 11, 205.	1.1	15
46	Silica and graphene mediate arsenic detection in mature rice grain by a newly patterned current-volt aptasensor. <i>Scientific Reports</i> , 2021, 11, 14688.	1.6	14
47	Investigation of the physiological properties and synthesis of PUFAs from <i>Thraustochytrids</i> and its electrophoretic karyotypes. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 720-729.	1.4	13
48	Bimetallic mixed metal oxide (CuO/NiO) in fusion with nitrogen-doped graphene oxide: An alternate approach for developing potential biocarrier. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105781.	3.3	13
49	Identification and characterization of a novel enzyme related to the synthesis of PUFAs derived from <i>Thraustochytrium aureum</i> ATCC 34304. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 261-272.	1.4	12
50	CHARACTERIZATION OF AN EXTRACELLULAR LIPASE BY <i>Pseudomonas koreensis</i> BK-L07 ISOLATED FROM SOIL. <i>Preparative Biochemistry and Biotechnology</i> , 2014, 44, 266-280.	1.0	12
51	Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. <i>Microsystem Technologies</i> , 2018, 24, 5007-5016.	1.2	12
52	Characterization and anti-bacterial potential of iron oxide nanoparticle processed eco-friendly by plant extract. <i>Preparative Biochemistry and Biotechnology</i> , 2020, 50, 1053-1062.	1.0	12
53	SARS-CoV-2 spike protein: Site-specific breakpoints for the development of COVID-19 vaccines. <i>Journal of King Saud University - Science</i> , 2021, 33, 101648.	1.6	11
54	Identification of a vitamin D3-specific hydroxylase genes through actinomycetes genome mining. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 265-273.	1.4	10

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55	Isolation and identification of a novel fibrinolytic <i>Bacillus tequilensis</i> CWD-67 from dumping soils enriched with poultry wastes. Journal of General and Applied Microbiology, 2015, 61, 241-247.	0.4	10
56	Longitudinal Zeolite-Iron Oxide Nanocomposite Deposited Capacitance Biosensor for Interleukin-3 in Sepsis Detection. Nanoscale Research Letters, 2021, 16, 68.	3.1	10
57	Single-walled carbon nanotube-gold urchin nanohybrid for identifying gastric cancer on dimicroelectrodes junction. Journal of the Taiwan Institute of Chemical Engineers, 2021, 121, 108-114.	2.7	10
58	Green synthesized strontium oxide nanoparticles by <i>Elodea canadensis</i> extract and their antibacterial activity. Journal of Nanostructure in Chemistry, 2022, 12, 365-373.	5.3	10
59	Optimization of alkaline protease production from <i>Shewanella oneidensis</i> MR1 by response surface methodology. Journal of Chemical Technology and Biotechnology, 2009, 84, 54-62.	1.6	9
60	Self-assembled silver nanoparticle-DNA on a dielectrode microdevice for determination of gynecologic tumors. Biomedical Microdevices, 2020, 22, 67.	1.4	9
61	Alzheimer's Disease Determination by a Dual Probe on Gold Nanourchins and Nanohorn Hybrids. International Journal of Nanomedicine, 2021, Volume 16, 2311-2322.	3.3	9
62	Isolation and characterization of a novel oxidant and surfactant stable extracellular alkaline protease from <i>Exiguobacterium profundum</i> BK-P23. Biotechnology and Applied Biochemistry, 2013, 60, 155-161.	1.4	8
63	Zeolite-iron oxide nanocomposite from fly ash formed a clubbell structure: integration of cardiac biocapture macromolecules in serum on microelectrodes. Mikrochimica Acta, 2021, 188, 187.	2.5	8
64	Impedimetric cardiac biomarker determination in serum mediated by epoxy and hydroxyl of reduced graphene oxide on gold array microelectrodes. Mikrochimica Acta, 2021, 188, 257.	2.5	8
65	Novelty Studies on Amorphous Silica Nanoparticle Production From Rice Straw Ash. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012021.	0.3	7
66	Simple and Green Approach Strategy to Synthesis Graphene Using Rice Straw Ash. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012181.	0.3	7
67	Surface engineered iron oxide nanoparticles as efficient materials for antibiofilm application. Biotechnology and Applied Biochemistry, 2022, 69, 714-725.	1.4	7
68	Alkalized extraction of silica-aluminium nanocomposite from traditional Chinese joss paper: Optical characterizations. Materials Chemistry and Physics, 2020, 243, 122621.	2.0	6
69	An iron oxide nanoworm hybrid on an interdigitated microelectrode silica surface to detect abdominal aortic aneurysms. Mikrochimica Acta, 2021, 188, 185.	2.5	6
70	Immunosensing the rheumatoid arthritis biomarker through bifunctional aldehyde-amine linkers on an iron oxide nanoparticle seeded voltammetry sensor. Nanomaterials and Nanotechnology, 2022, 12, 184798042210851.	1.2	6
71	Surface charge transduction enhancement on nano-silica and - Alumina integrated planar electrode for hybrid DNA determination. Materials Chemistry and Physics, 2021, 265, 124486.	2.0	5
72	Chemical synthesis of NiFe <sub>2</sub> O <sub>4</sub> /NG/cellulose nanocomposite and its antibacterial potential against bacterial pathogens. Biotechnology and Applied Biochemistry, 2022, 69, 867-875.	1.4	4

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73	Current Update of Phytotherapeutic Agents in the Treatment of COVID-19: In-Silico Based Virtual Screening Approach for the Development of Antiviral Drug. <i>Frontiers in Bioscience</i> , 2022, 27, 123.	0.8	4
74	Covalent conjugation of reduced graphene oxide with oligos for currentâ€“voltage signal determination on leukemia. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	3
75	High-Affinity Detection of Metal-Mediated Nephrotoxicity by Aptamer Nanomaterial Complementation. <i>Current Nanoscience</i> , 2019, 15, 549-556.	0.7	3
76	Organic solvent stable protease isolation and characterization from organic solvent tolerant strain of <i>Lysinibacillus sphaericus</i> PAPO2. <i>Biologia (Poland)</i> , 2016, 71, 972-979.	0.8	2
77	Gold-nanourchin complexed silicon dioxide-probe on gap-fingered interdigitated electrode surface for Parkinsonâ€™s Disease determination by currentâ€“voltage measurement. <i>Nanomaterials and Nanotechnology</i> , 2021, 11, 184798042098735.	1.2	2
78	Production and characterization of titanium oxide nanoparticle using extract of macrophytic alga. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	2
79	Morphological Analysis of Fabricated 5.0 $\times 10^{-4}$ M Interdigitated Electrode (IDE). <i>Journal of Physics: Conference Series</i> , 2021, 2129, 012100.	0.3	0