Antony V Samrot

List of Publications by Year
in descending order

101 papers	1,792 citations	257450 24 h-index	330143 37 g-index
105 all docs	105 docs citations	105 times ranked	1453 citing authors

#	Article	IF	Citations
1	A review on synthesis, characterization and potential biological applications of superparamagnetic iron oxide nanoparticles. Current Research in Green and Sustainable Chemistry, 2021, 4, 100042.	5.6	178
2	Study on a Novel natural cellulosic fiber from Kigelia africana fruit: Characterization and analysis. Carbohydrate Polymers, 2020, 244, 116494.	10.2	86
3	Synthesis of curcumin loaded polymeric nanoparticles from crab shell derived chitosan for drug delivery. Informatics in Medicine Unlocked, 2018, 10, 159-182.	3.4	80
4	Synthesis and characterization of superparamagnetic iron-oxide nanoparticles (SPIONs) and utilization of SPIONs in X-ray imaging. Applied Nanoscience (Switzerland), 2017, 7, 463-475.	3.1	65
5	Production, characterization and application of nanocarriers made of polysaccharides, proteins, bio-polyesters and other biopolymers: A review. International Journal of Biological Macromolecules, 2020, 165, 3088-3105.	7.5	63
6	Preparation, characterization and utilization of coreshell super paramagnetic iron oxide nanoparticles for curcumin delivery. PLoS ONE, 2018, 13, e0200440.	2.5	49
7	Leptospiral Infection, Pathogenesis and Its Diagnosisâ€"A Review. Pathogens, 2021, 10, 145.	2.8	45
8	Antibacterial and Antioxidant Activity of Different Staged Ripened Fruit of Capsicum annuum and Its Green Synthesized Silver Nanoparticles. BioNanoScience, 2018, 8, 632-646.	3.5	43
9	Surface-Engineered Super-Paramagnetic Iron Oxide Nanoparticles For Chromium Removal . International Journal of Nanomedicine, 2019, Volume 14, 8105-8119.	6.7	43
10	Molecular analysis of rpoB gene mutations in rifampicin resistant Mycobacterium tuberculosis isolates by multiple allele specific polymerase chain reaction in Puducherry, South India. Journal of Infection and Public Health, 2015, 8, 619-625.	4.1	42
11	Antibacterial Activity of Alkaloids, Flavonoids, Saponins and Tannins Mediated Green Synthesised Silver Nanoparticles Against Pseudomonas aeruginosa and Bacillus subtilis. Journal of Cluster Science, 2019, 30, 881-895.	3.3	42
12	Adsorption efficiency of chemically synthesized Superparamagnetic Iron Oxide Nanoparticles (SPIONs) on crystal violet dye. Current Research in Green and Sustainable Chemistry, 2021, 4, 100066.	5.6	40
13	Bioactivity and Heavy Metal Removal Using Plant Gum Mediated Green Synthesized Silver Nanoparticles. Journal of Cluster Science, 2019, 30, 1599-1610.	3.3	36
14	Purification, characterization and utilization of polysaccharide of Araucaria heterophylla gum for the synthesis of curcumin loaded nanocarrier. International Journal of Biological Macromolecules, 2019, 140, 393-400.	7.5	35
15	Overview on toxicity of nanoparticles, it's mechanism, models used in toxicity studies and disposal methods â€“ A review. Biocatalysis and Agricultural Biotechnology, 2021, 36, 102117.	3.1	35
16	A study on the effect of chemically synthesized magnetite nanoparticles on earthworm: Eudrilus eugeniae. Applied Nanoscience (Switzerland), 2017, 7, 17-23.	3.1	33
17	Azadirachta indica influenced biosynthesis of super-paramagnetic iron-oxide nanoparticles and their applications in tannery water treatment and X-ray imaging. Journal of Nanostructure in Chemistry, 2018, 8, 343-351.	9.1	33
18	Antibacterial activity of some edible fruits and its green synthesized silver nanoparticles against uropathogen â€“ Pseudomonas aeruginosa SU 18. Biocatalysis and Agricultural Biotechnology, 2018, 16, 253-270.	3.1	33

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19	The Synthesis, Characterization and Applications of Polyhydroxyalkanoates (PHAs) and PHA-Based Nanoparticles. Polymers, 2021, 13, 3302.	4.5	33
20	Mechanisms and Impact of Biofilms and Targeting of Biofilms Using Bioactive Compoundsâ€"A Review. Medicina (Lithuania), 2021, 57, 839.	2.0	32
21	Utilization of chitosan-coated superparamagnetic iron oxide nanoparticles for chromium removal. Applied Water Science, 2018, 8, 1.	5.6	31
22	Chelators influenced synthesis of chitosanâ€"carboxymethyl cellulose microparticles for controlled drug delivery. Applied Nanoscience (Switzerland), 2016, 6, 1219-1231.	3.1	28
23	Extraction, Purification, and Characterization of Polysaccharides of Araucaria heterophylla L and Prosopis chilensis L and Utilization of Polysaccharides in Nanocarrier Synthesis . International Journal of Nanomedicine, 2020, Volume 15, 7097-7115.	6.7	27
24	A Short-Term Solar Photovoltaic Power Optimized Prediction Interval Model Based on FOS-ELM Algorithm. International Journal of Photoenergy, 2021, 2021, 1-12.	2.5	26
25	Accumulation of Poly[(R)-3-hydroxyalkanoates] in Enterobacter cloacae SU-1 During Growth with Two Different Carbon Sources in Batch Culture. Applied Biochemistry and Biotechnology, 2011, 163, 195-203.	2.9	25
26	Utilization of Chemically Synthesized Super Paramagnetic Iron Oxide Nanoparticles in Drug Delivery, Imaging and Heavy Metal Removal. Journal of Cluster Science, 2019, 30, 11-24.	3.3	23
27	Bioactive Potential of Brown Algae. Adsorption Science and Technology, 2022, 2022, .	3.2	23
28	Purification, characterization and exploitation of Azadirachta indica gum for the production of drug loaded nanocarrier. Materials Research Express, 2020, 7, 055007.	1.6	22
29	Evaluation of Nanotoxicity of Araucaria heterophylla Gum Derived Green Synthesized Silver Nanoparticles on Eudrilus eugeniae and Danio rerio. Journal of Cluster Science, 2019, 30, 1017-1024.	3.3	20
30	A study on influence of superparamagnetic iron oxide nanoparticles (SPIONs) on green gram (Vigna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	19
31	Antimicrobial activity, antiproliferative activity, amylase inhibitory activity and phytochemical analysis of ethanol extract of corn (Zea mays L.) silk. Current Research in Green and Sustainable Chemistry, 2021, 4, 100089.	5.6	19
32	Dental pulp stem cells therapy overcome photoreceptor cell death and protects the retina in a rat model of sodium iodate-induced retinal degeneration. Journal of Photochemistry and Photobiology B: Biology, 2019, 198, 111561.	3.8	18
33	Utilization of gum polysaccharide of Araucaria heterophylla and Azadirachta indica for encapsulation of cyfluthrin loaded super paramagnetic iron oxide nanoparticles for mosquito larvicidal activity. International Journal of Biological Macromolecules, 2020, 153, 1024-1034.	7.5	18
34	Optimization and characterization of poly[R]hydroxyalkanoate of Pseudomonas aeruginosa SU-1 to utilize in nanoparticle synthesis for curcumin delivery. Biocatalysis and Agricultural Biotechnology, 2017, 12, 292-298.	3.1	16
35	Purification and Utilization of Gum from Terminalia Catappa L. for Synthesis of Curcumin Loaded Nanoparticle and Its In Vitro Bioactivity Studies. Journal of Cluster Science, 2018, 29, 989-1002.	3.3	16
36	A Study on Toxicity of Chemically Synthesised Silver Nanoparticle on Eudrilus eugeniae. Toxicology and Environmental Health Sciences, 2018, 10, 162-167.	2.1	15

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37	Production, characterization and optimization of fibrinolytic protease from Bacillus pseudomycoides strain MA02 isolated from poultry slaughter house soils. Biocatalysis and Agricultural Biotechnology, 2019, 22, 101371.	3.1	15
38	Role of Nanoparticles in Biodegradation and Their Importance in Environmental and Biomedical Applications. Journal of Nanomaterials, 2022, 2022, 1-15.	2.7	15
39	Greener Approach for Leather Tanning Using Less Chrome with Plant Tannins and Tannins Mediated Nanoparticles. Journal of Cluster Science, 2019, 30, 1533-1543.	3.3	14
40	Evidence-based traditional Siddha formulations for prophylaxis and management of respiratory symptoms in COVID-19 pandemic-a review. Biocatalysis and Agricultural Biotechnology, 2021, 35, 102056.	3.1	12
41	Antibacterial Activity of Neem Extract and its Green Synthesized Silver Nanoparticles against Pseudomonas aeruginosa. Journal of Pure and Applied Microbiology, 2018, 12, 969-974.	0.9	12
42	Evaluation of Toxicity of Chemically Synthesised Gold Nanoparticles Against Eudrilus eugeniae. Journal of Cluster Science, 2018, 29, 1217-1225.	3.3	11
43	Ficus iyrata plant gum derived polysaccharide based nanoparticles and its application. Biocatalysis and Agricultural Biotechnology, 2021, 31, 101871.	3.1	11
44	Bioactivity Studies of Datura metel, Aegle marmelos, Annona reticulata and Saraca indica and their Green Synthesized Silver Nanoparticle. Journal of Pure and Applied Microbiology, 2019, 13, 329-338.	0.9	11
45	Waste-Derived Cellulosic Fibers and Their Applications. Advances in Materials Science and Engineering, 2022, 2022, 1-13.	1.8	11
46	LEATHER PROCESSING, ITS EFFECTS ON ENVIRONMENT AND ALTERNATIVES OF CHROME TANNINGÂÂ. International Journal of Advanced Research in Engineering & Technology, 2019, 10, .	0.3	10
47	Utilization of Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Impregnated Activated Carbon for Removal of Hexavalent Chromium. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	10
48	Molecular typing and differentiation of Mycobacterium tuberculosis clinical isolates using Double Repetitive Element PCR and Duplex PCR. International Journal of Mycobacteriology, 2015, 4, 60-66.	0.6	9
49	Surface-modified and untreated Cissus quadrangularis reinforced polylactic composite. Current Research in Green and Sustainable Chemistry, 2021, 4, 100121.	5.6	9
50	Surfactantâ€mediated synthesis of polyhydroxybutyrate (PHB) nanoparticles for sustained drug delivery. IET Nanobiotechnology, 2019, 13, 416-427.	3.8	9
51	Antibacterial Activity of the Silver Nanoparticles against Escherichia coli and Enterobacter sp. Progress in Bioscience and Bioengineering, 2017, 1, .	0.2	9
52	Purification and Characterization of Gum-Derived Polysaccharides of Moringa oleifera and Azadirachta indica and Their Applications as Plant Stimulants and Bio-Pesticidal Agents. Molecules, 2022, 27, 3720.	3.8	9
53	Biopolymer Coated Coreshell Magnetite Nanoparticles for Rifampicin Delivery. Oriental Journal of Chemistry, 2018, 34, 2389-2396.	0.3	8
54	Production, Optimization and Characterisation of Chitosanase of Bacillus sp. and its Applications in Nanotechnology. Journal of Cluster Science, 2019, 30, 607-620.	3.3	8

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55	Antidiabetic potential of methanolic extracts of Sargassum wightii in streptozotocin induced diabetic mice. Biocatalysis and Agricultural Biotechnology, 2020, 28, 101763.	3.1	8
56	Hypoxia in Bone and Oxygen Releasing Biomaterials in Fracture Treatments Using Mesenchymal Stem Cell Therapy: A Review. Frontiers in Cell and Developmental Biology, 2021, 9, 634131.	3.7	8
57	In vitro and In silico Approaches to Study the Bioactivity of Citrus limon Leaf Extracts. Journal of Young Pharmacists, 2017, 9, 290-295.	0.2	8
58	Utilizing pharmacological properties of polyphenolic curcumin in nanotechnology. Biocatalysis and Agricultural Biotechnology, 2021, 38, 102212.	3.1	8
59	Utilization of Carica papaya latex on coating of SPIONs for dye removal and drug delivery. Scientific Reports, 2021, 11, 24511.	3.3	8
60	A Review of Different Vaccines and Strategies to Combat COVID-19. Vaccines, 2022, 10, 737.	4.4	8
61	Study on Effect of Fiber Loading Natural Coccinia Grandis Fiber Epoxy Composite. Journal of Natural Fibers, 2022, 19, 7542-7552.	3.1	7
62	Phytochemical Screening and Bioactivity Study of cassia alata Leaves. Biosciences, Biotechnology Research Asia, 2015, 12, 291-296.	0.5	7
63	EXTRACTION, CHARACTERIZATION AND INVITRO BIOACTIVITY EVALUATION OF ALKALOIDS, FLAVONOIDS, SAPONINS AND TANNINS OF Cassia alata, Thespesia populnea, Euphorbia hirta AND Wrightia tinctoria. Rasayan Journal of Chemistry, 2019, 12, 123-137.	0.4	7
64	Bioactivity and Plant Growth Stimulation Studies using Mangifera indica L. Gum. Journal of Pure and Applied Microbiology, 2021, 15, 2073-2084.	0.9	7
65	Looking into dental pulp stem cells in the therapy of photoreceptors and retinal degenerative disorders. Journal of Photochemistry and Photobiology B: Biology, 2020, 203, 111727.	3.8	6
66	SYNTHESIS OF POLYHYDROXYBUTYRATE NANOPARTICLES USING SURFACTANT (SPAN20) FOR HYDROPHOBIC DRUG DELIVERY. Rasayan Journal of Chemistry, 2018, 11, 1686-1695.	0.4	6
67	Antioxidant and Quorum Quenching Activity against Pseudomonas aeruginosa SU-18 of some Edible Fruit Juices. Journal of Pure and Applied Microbiology, 2019, 13, 1863-1876.	0.9	6
68	Citrus sinensis cellulose fibres incorporated with SPIONs for effective removal of crystal violet dye. Biocatalysis and Agricultural Biotechnology, 2022, 39, 102211.	3.1	6
69	Bioprospecting of <i>Brevibacillus brevis</i> Isolated from Soil. Recent Patents on Biotechnology, 2015, 9, 42-49.	0.8	5
70	Antimicrobial activity of flower extracts against wound pathogens and fungi. Current Research in Green and Sustainable Chemistry, 2021, 4, 100076.	5.6	5
71	Green Synthesis and Antibacterial Activity Studies of Silver Nanoparticles from the Aqueous Extracts of Euphorbia hirta. Journal of Pure and Applied Microbiology, 2020, 14, 301-306.	0.9	5
72	Bioprospecting studies of pigmenting Pseudomonas aeruginosa SU-1, Microvirga aerilata SU14 and Bacillus megaterium SU15 isolated from garden soil. Biocatalysis and Agricultural Biotechnology, 2017, 11, 330-337.	3.1	4

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73	Stem Cell Therapy in Dengue Virus-Infected BALB/C Mice Improves Hepatic Injury. Frontiers in Cell and Developmental Biology, 2021, 9, 637270.	3.7	4
74	Electricity Generation using Carboxymethyl Cellulose and Kitchen Waste as Substrate by Exiguobacterium sp SU-5 in Mediatorless Microbial Fuel Cell. Journal of Pure and Applied Microbiology, 2019, 13, 2151-2158.	0.9	4
75	Evaluation of Antioxidant and Antimicrobial Activity of Some Plants Collected from Malaysia. Journal of Pure and Applied Microbiology, 2019, 13, 2363-2373.	0.9	4
76	Synthesis of Plant Latex Based Hybrid Nanocarriers Using Surfactants for Curcumin Delivery. Journal of Cluster Science, 2019, 30, 281-296.	3.3	3
77	Hypoxic-Mediated Oxidative Stress Condition and Hydroxyapatite-Inducing Osteogenic Differentiation of Human Mesenchymal Stem Cells: A Mathematical Modeling Study. Journal of Biomedical Nanotechnology, 2020, 16, 910-921.	1.1	3
78	In vitroBioactivity Screening ofDesmostachya bipinnata. Research Journal of Pharmacy and Technology, 2016, 9, 361.	0.8	3
79	In vitro antibacterial activity of biosynthesized silver nanoparticles against gram negative bacteria. Inorganic and Nano-Metal Chemistry, 0, , 1-10.	1.6	3
80	Toxicity evaluation of SPIONs on Danio rerio embryonic development. Materials Today: Proceedings, 2022, , .	1.8	3
81	Production, Optimization and Characterization of Poly[R]Hydroxyalkanoate from Enterobacter sp SU16. Indian Journal of Science and Technology, 2016, 9, .	0.7	2
82	Metabolic utilization of human osteoblast cell line hFOB 1.19 under normoxic and hypoxic conditions: A phenotypic microarray analysis. Experimental Biology and Medicine, 2021, 246, 1177-1183.	2.4	2
83	Extraction of Chitosan from Crab Shell and Fungi and Its Antibacterial Activity against Urinary Tract Infection Causing Pathogens. Journal of Pure and Applied Microbiology, 2021, 15, 968-975.	0.9	2
84	Clinical Evaluation of Automated BACTEC MGIT 960 System for Identification, Recovery and Drug Susceptibility Testing of Mycobacterium tuberculosis Clinical Isolates. Indian Journal of Science and Technology, 2016, 9, .	0.7	2
85	Sodium Tri Poly Phosphate Mediated Synthesis of Curcumin Loaded Chitosan-Carboxymethyl Cellulose Microparticles for Drug Delivery. International Journal of Pharmacognosy and Phytochemical Research, 2017, 9, .	0.2	2
86	Anti-microbial activity of seed extract of Cucumis sativus L., Carica papaya L. and Annona squamosa L.. International Journal of Research in Pharmaceutical Sciences, 2020, 11, 6719-6726.	0.1	2
87	An In vitro Study on Bioactivity of Ficus racemosa. Research Journal of Pharmacy and Technology, 2017, 10, 4219.	0.8	2
88	Optimization and Characterization of Poly[R]hydroxyalkanoates of Pseudomonas aeruginosa. Biosciences, Biotechnology Research Asia, 2015, 12, 2133-2138.	0.5	2
89	Production and Utilization of SPIONs for In-vitro Drug Release and X-ray Imaging. Journal of Pure and Applied Microbiology, 2020, 14, 1317-1322.	0.9	2
90	Optimization of Keratinase Production and Utilization of Bacillus pumilus for Feather Degradation. Journal of Pure and Applied Microbiology, 2020, 14, 2483-2489.	0.9	2

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91	The utilization of Garcinia mangostana fibers for the removal of crystal violet dye. Materials Today: Proceedings, 2022, , .	1.8	2
92	ANTIBIOGRAM STUDY OF URINARY ISOLATES AMONG INPATIENTS AND OUTPATIENTS AT PUDUCHERRY STATE, SOUTH INDIAÂÂ. International Journal of Advanced Research in Engineering & Technology, 2019, 10, .	0.3	1
93	Bioactivity of some Pigmented and Non-Pigmented Vegetables and Fruits. Research Journal of Pharmacy and Technology, 2017, 10, 4152.	0.8	1
94	Evaluation of bioactivity of Annona muricata, Piper betle and Mentha spicata. International Journal of Pharmaceutical and Phytopharmacological Research, 2017, 6, 1.	0.2	1
95	Targeting Acyl Homoserine Lactone (AHL) of Pseudomonas aeruginosa Responsible for Biofilm Formation using Plant Metabolites. Journal of Pure and Applied Microbiology, 2019, 13, 1841-1846.	0.9	1
96	GREEN SYNTHESIS AND ANTIBACTERIAL ACTIVITY STUDIES OF SILVER NANOPARTICLES FROM THE AQUEOUS EXTRACTS OF WRIGHTIA TINCTORIAÂÂ. International Journal of Advanced Research in Engineering & Technology, 2019, 10, .	0.3	1
97	Evaluation of Antidiabetic Activity of Sargassum tenerrimum in Streptozotocin-Induced Diabetic Mice. Journal of Pure and Applied Microbiology, 2021, 15, 2462-2472.	0.9	1
98	Lipofection of Single Guide RNA Targeting MMP8 Decreases Proliferation and Migration in Lung Adenocarcinoma Cells. Medicina (Lithuania), 2021, 57, 710.	2.0	0
99	ELECTRICITY GENERATION IN MEDIATORLESS MICROBIAL FUEL CELL USING AGROBACTERIUM TUMEFACIENS SU-11 HAVING LACTOSE AND DAIRY WASTE AS CARBON SOURCEÂÂ. International Journal of Advanced Research in Engineering & Technology, 2019, 10, .	0.3	0
100	Purification, Characterization, Optimization and Evaluation of Bioactivity Potential of Exopolysaccharides of Curvularia Lunata. International Journal of Research in Pharmaceutical Sciences, 2020, 11, 7476-7485.	0.1	0
101	Microbially synthesized silver nanoparticles: Mechanism and advantagesâ€"A review. , 2022, , 439-478.		0