Panchanathan Manivasagan

List of Publications by Citations

78 papers	3,663 citations	35 h-index	59 g-index
82 ext. papers	4,429 ext. citations	5.6 avg, IF	5.76 L-index

#	Paper	IF	Citations
78	Alginate composites for bone tissue engineering: a review. *International Journal of Biological Macromolecules*, **2015**, 72, 269-81	7.9	523
77	Pharmaceutically active secondary metabolites of marine actinobacteria. *Microbiological Research*, **2014**, 169, 262-78	5.3	245
76	Brown seaweed fucoidan: biological activity and apoptosis, growth signaling mechanism in cancer. *International Journal of Biological Macromolecules*, **2013**, 60, 366-74	7.9	213
75	Biosynthesis, antimicrobial and cytotoxic effect of silver nanoparticles using a novel Nocardiopsis sp. MBRC-1. *BioMed Research International*, **2013**, 2013, 287638	3	121
74	Doxorubicin-loaded fucoidan capped gold nanoparticles for drug delivery and photoacoustic imaging. *International Journal of Biological Macromolecules*, **2016**, 91, 578-88	7.9	116
73	Marine polysaccharide-based nanomaterials as a novel source of nanobiotechnological applications. *International Journal of Biological Macromolecules*, **2016**, 82, 315-27	7.9	112
72	Seaweed polysaccharides and their potential biomedical applications. *Starch/Staerke*, **2015**, 67, 381-390	2.3	97
71	Marine actinobacteria: an important source of bioactive natural products. *Environmental Toxicology and Pharmacology*, **2014**, 38, 172-88	5.8	93
70	Paclitaxel-loaded chitosan oligosaccharide-stabilized gold nanoparticles as novel agents for drug delivery and photoacoustic imaging of cancer cells. *International Journal of Pharmaceutics*, **2016**, 511, 367-379	6.5	87
69	Marine algae-mediated synthesis of gold nanoparticles using a novel Ecklonia cava. *Bioprocess and Biosystems Engineering*, **2014**, 37, 1591-7	3.7	77
68	Hydroxyapatite Coated Iron Oxide Nanoparticles: A Promising Nanomaterial for Magnetic Hyperthermia Cancer Treatment. *Nanomaterials*, **2017**, 7,	5.4	70
67	Isolation and Characterization of Nano-Hydroxyapatite from Salmon Fish Bone. *Materials*, **2015**, 8, 5426-5439	3.5	68
66	Chitosan and their derivatives: Antibiofilm drugs against pathogenic bacteria. *Colloids and Surfaces B: Biointerfaces*, **2020**, 185, 110627	6	68
65	Multimodal tumor-homing chitosan oligosaccharide-coated biocompatible palladium nanoparticles for photo-based imaging and therapy. *Scientific Reports*, **2018**, 8, 500	4.9	67
64	Extracellular synthesis of gold bionanoparticles by Nocardiopsis sp. and evaluation of its antimicrobial, antioxidant and cytotoxic activities. *Bioprocess and Biosystems Engineering*, **2015**, 38, 1167-77	3.7	60
63	Marine microorganisms as potential biofactories for synthesis of metallic nanoparticles. *Critical Reviews in Microbiology*, **2016**, 42, 1007-19	7.8	59
62	Multifunctional biocompatible chitosan-polypyrrole nanocomposites as novel agents for photoacoustic imaging-guided photothermal ablation of cancer. *Scientific Reports*, **2017**, 7, 43593	4.9	58

61	Isolation and characterization of biologically active melanin from Actinoalloteichus sp. MA-32. *International Journal of Biological Macromolecules*, **2013**, 58, 263-74	7.9	54
60	Production of polysaccharide-based bioflocculant for the synthesis of silver nanoparticles by Streptomyces sp. *International Journal of Biological Macromolecules*, **2015**, 77, 159-67	7.9	51
59	Optimization, production and characterization of glycolipid biosurfactant from the marine actinobacterium, Streptomyces sp. MAB36. *Bioprocess and Biosystems Engineering*, **2014**, 37, 783-97	3.7	49
58	Production of □amylase for the biosynthesis of gold nanoparticles using Streptomyces sp. MBRC-82. *International Journal of Biological Macromolecules*, **2015**, 72, 71-8	7.9	47
57	Anti-EGFR Antibody Conjugation of Fucoidan-Coated Gold Nanorods as Novel Photothermal Ablation Agents for Cancer Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 14633-14646	9.5	45
56	Marine natural pigments as potential sources for therapeutic applications. *Critical Reviews in Biotechnology*, **2018**, 38, 745-761	9.4	43
55	Fucoidan-Stabilized Gold Nanoparticle-Mediated Biofilm Inhibition, Attenuation of Virulence and Motility Properties in PAO1. *Marine Drugs*, **2019**, 17,	6	42
54	Chlorin e6 conjugated silica nanoparticles for targeted and effective photodynamic therapy. *Photodiagnosis and Photodynamic Therapy*, **2017**, 19, 212-220	3.5	42
53	Production and characterization of an extracellular polysaccharide from Streptomyces violaceus MM72. *International Journal of Biological Macromolecules*, **2013**, 59, 29-38	7.9	39
52	In Vitro Photodynamic Effect of Phycocyanin against Breast Cancer Cells. *Molecules*, **2016**, 21,	4.8	39
51	Chitosan/fucoidan multilayer coating of gold nanorods as highly efficient near-infrared photothermal agents for cancer therapy. *Carbohydrate Polymers*, **2019**, 211, 360-369	10.3	38
50	Magnetic hyperthermia and pH-responsive effective drug delivery to the sub-cellular level of human breast cancer cells by modified CoFeO nanoparticles. *Biochimie*, **2017**, 133, 7-19	4.6	37
49	Chitosan as a stabilizer and size-control agent for synthesis of porous flower-shaped palladium nanoparticles and their applications on photo-based therapies. *Carbohydrate Polymers*, **2019**, 205, 340-352	10.3	37
48	Photo-based PDT/PTT dual model killing and imaging of cancer cells using phycocyanin-polypyrrole nanoparticles. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 123, 20-30	5.7	37
47	Antibiofilm and antivirulence properties of chitosan-polypyrrole nanocomposites to Pseudomonas aeruginosa. *Microbial Pathogenesis*, **2019**, 128, 363-373	3.8	36
46	Synthesis and characterization of chitosan oligosaccharide-capped gold nanoparticles as an effective antibiofilm drug against the Pseudomonas aeruginosa PAO1. *Microbial Pathogenesis*, **2019** , 135, 103623	3.8	36
45	Photoacoustic Imaging-Guided Photothermal Therapy with Tumor-Targeting HA-FeOOH@PPy Nanorods. *Scientific Reports*, **2018**, 8, 8809	4.9	35
44	Doxorubicin-fucoidan-gold nanoparticles composite for dual-chemo-photothermal treatment on eye tumors. *Oncotarget*, **2017**, 8, 113719-113733	3.3	35

43	Folic acid-conjugated chitosan-functionalized graphene oxide for highly efficient photoacoustic imaging-guided tumor-targeted photothermal therapy. *International Journal of Biological Macromolecules*, **2020**, 155, 961-971	7.9	35
42	Actinobacteria mediated synthesis of nanoparticles and their biological properties: A review. *Critical Reviews in Microbiology*, **2016**, 42, 209-21	7.8	34
41	Anti-EGFR antibody conjugated thiol chitosan-layered gold nanoshells for dual-modal imaging-guided cancer combination therapy. *Journal of Controlled Release*, **2019**, 311-312, 26-42	11.7	33
40	Production of a Novel Fucoidanase for the Green Synthesis of Gold Nanoparticles by Streptomyces sp. and Its Cytotoxic Effect on HeLa Cells. *Marine Drugs*, **2015**, 13, 6818-37	6	33
39	Marine Biopolymer-Based Nanomaterials as a Novel Platform for Theranostic Applications. *Polymer Reviews*, **2017**, 57, 631-667	14	31
38	Fucoidan-coated CuS nanoparticles for chemo-and photothermal therapy against cancer. *Oncotarget*, **2018**, 9, 12649-12661	3.3	31
37	A multifunctional near-infrared laser-triggered drug delivery system using folic acid conjugated chitosan oligosaccharide encapsulated gold nanorods for targeted chemo-photothermal therapy. *Journal of Materials Chemistry B*, **2019**, 7, 3811-3825	7.3	29
36	Comparative characterization of biogenic and chemical synthesized hydroxyapatite biomaterials for potential biomedical application. *Materials Chemistry and Physics*, **2019**, 228, 344-356	4.4	28
35	Polypyrrole–methylene blue nanoparticles as a single multifunctional nanoplatform for near-infrared photo-induced therapy and photoacoustic imaging. *RSC Advances*, **2017**, 7, 35027-35037	3.7	28
34	Thiol chitosan-wrapped gold nanoshells for near-infrared laser-induced photothermal destruction of antibiotic-resistant bacteria. *Carbohydrate Polymers*, **2019**, 225, 115228	10.3	27
33	Chlorin e6 conjugated copper sulfide nanoparticles for photodynamic combined photothermal therapy. *Photodiagnosis and Photodynamic Therapy*, **2017**, 19, 128-134	3.5	26
32	Biocompatible Chitosan Oligosaccharide Modified Gold Nanorods as Highly Effective Photothermal Agents for Ablation of Breast Cancer Cells. *Polymers*, **2018**, 10,	4.5	25
31	Extracellular polysaccharides produced by marine bacteria. *Advances in Food and Nutrition Research*, **2014**, 72, 79-94	6	24
30	Synthesis of amine-polyglycidol functionalised Fe3O4@SiO2 nanocomposites for magnetic hyperthermia, pH-responsive drug delivery, and bioimaging applications. *RSC Advances*, **2016**, 6, 110444-110453	3.7	23
29	Cytotoxic Induction and Photoacoustic Imaging of Breast Cancer Cells Using Astaxanthin-Reduced Gold Nanoparticles. *Nanomaterials*, **2016**, 6,	5.4	22
28	Potential matrix metalloproteinase inhibitors from edible marine algae: a review. *Environmental Toxicology and Pharmacology*, **2014**, 37, 1090-100	5.8	20
27	Astaxanthin conjugated polypyrrole nanoparticles as a multimodal agent for photo-based therapy and imaging. *International Journal of Pharmaceutics*, **2017**, 517, 216-225	6.5	19
26	Actinobacterial melanins: current status and perspective for the future. *World Journal of Microbiology and Biotechnology*, **2013**, 29, 1737-50	4.4	19

25	Biofilm inhibition, modulation of virulence and motility properties by FeOOH nanoparticle in Pseudomonas aeruginosa. *Brazilian Journal of Microbiology*, **2019**, 50, 791-805	2.2	18
24	Production, characterization and antioxidant potential of protease from Streptomyces sp. MAB18 using poultry wastes. *BioMed Research International*, **2013**, 2013, 496586	3	17
23	Actinobacterial enzyme inhibitors--a review. *Critical Reviews in Microbiology*, **2015**, 41, 261-72	7.8	16
22	Chitosan oligosaccharide coated mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. *Journal of Porous Materials*, **2019**, 26, 217-226	2.4	16
21	Production, Biochemical Characterization and Detergents Application of Keratinase from the Marine Actinobacterium Actinoalloteichus sp. MA-32. *Journal of Surfactants and Detergents*, **2014**, 17, 669-682	1.9	13
20	Synthesis of surface capped mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. *MedChemComm*, **2017**, 8, 1797-1805	5	13
19	Antiangiogenic effects of marine sponge derived compounds on cancer. *Environmental Toxicology and Pharmacology*, **2013**, 36, 1097-108	5.8	12
18	Marine Microalgae Biotechnology **2015**, 1-9		10
17	Crown ether triad modified core□shell magnetic mesoporous silica nanocarrier for pH-responsive drug delivery and magnetic hyperthermia applications. *New Journal of Chemistry*, **2017**, 41, 10935-10947	3.6	9
16	Synthesis of Silica-Coated Magnetic Hydroxyapatite Composites for Drug Delivery Applications. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 1951-1958	1.3	8
15	Studies on Hydrographical Parameters, Nutrients and Microbial Populations of Mullipallam Creek in Muthupettai Mangroves (Southeast Coast of India). *Research Journal of Microbiology*, **2011**, 6, 71-86	0.1	7
14	Green Synthesis of Metal Nanoparticles Using Seaweed Polysaccharides **2017**, 101-109		5
13	Biosynthesis of Nanoparticles Using Marine Algae: A Review **2015**, 295-304		4
12	Introduction to Marine Actinobacteria **2013**, 1-19		4
11	Synthesis of urea-pyridyl ligand functionalized mesoporous silica hybrid material for hydrophobic and hydrophilic drug delivery application. *Journal of Porous Materials*, **2018**, 25, 119-128	2.4	3
10	Recent advances in multifunctional nanomaterials for photothermal-enhanced Fenton-based chemodynamic tumor therapy.. *Materials Today Bio*, **2022**, 13, 100197	9.9	3
9	An Overview of Harmful Algal Blooms on Marine Organisms **2015**, 517-526		2
8	Marine Actinobacterial Metabolites and their Pharmaceutical Potential **2015**, 1371-1386		1

7	Marine Polysaccharide-Based Nanomaterials **2020**, 1231-1248		1
6	Potential Uses of Lactic Acid Bacteria in Seafood Products **2014**, 341-360		1
5	Folic acid conjugated chitosan encapsulated palladium nanoclusters for NIR triggered photothermal breast cancer treatment.. *Carbohydrate Polymers*, **2022**, 280, 119021	10.3	0
4	Marine Sponge Derived Actinomycetes and Their Anticancer Compounds **2015**, 741-755		
3	The Current Status of Novel Anticancer Drugs from Marine Actinobacteria **2015**, 239-251		
2	Antimicrobial potential of marine actinobacteria: A review **2015**, 17-28		
1	Marine Sponge-Associated Actinobacteria and Their Biological Properties **2016**, 57-67		