

# Vignesh Muthuvijayan

## List of Publications by Year in descending order

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36  
papers

844  
citations

516215

16  
h-index

500791

28  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled Inhalable Immunomodulatory Silk Fibroin Nanocarriers for Enhanced Drug Loading and Intracellular Antibacterial Activity. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 708-721.	2.6	8
2	Evaluating the inherent osteogenic and angiogenic potential of mesoporous silica nanoparticles to augment vascularized bone tissue formation. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110687.	2.2	13
3	Synthesis of cyclodextrin-derived star poly(N-vinylpyrrolidone)/poly(lactic-co-glycolide) supramolecular micelles via host-guest interaction for delivery of doxorubicin. <i>Polymer</i> , 2021, 214, 123243.	1.8	16
4	Biomaterials for Soft Tissue Engineering: Concepts, Methods, and Applications. , 2021, , 381-422.		0
5	Screening and selection of camptothecin producing endophytes from <i>Nothapodytes nimmoniana</i> . <i>Scientific Reports</i> , 2021, 11, 11205.	1.6	8
6	Nanohybrid-Reinforced Gelatin-Ureidopyrimidinone-Based Self-healing Injectable Hydrogels for Tissue Engineering Applications. <i>ACS Applied Bio Materials</i> , 2021, 4, 5362-5377.	2.3	22
7	Durable polymeric N-halamine functionalized stainless steel surface for improved antibacterial and anti-biofilm activity. <i>Materials Advances</i> , 2021, 2, 1090-1098.	2.6	3
8	Modular amphiphilic poly(aryl ether)-based supramolecular nanomicelles: an efficient endocytic drug carrier. <i>Chemical Communications</i> , 2021, 57, 12695-12698.	2.2	4
9	Design and evaluation of Konjac glucomannan-based bioactive interpenetrating network (IPN) scaffolds for engineering vascularized bone tissues. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 30-40.	3.6	30
10	Accelerated Outgrowth of Neurites on Graphene Oxide-Based Hybrid Electrospun Fibro-Porous Polymeric Substrates. <i>ACS Applied Bio Materials</i> , 2020, 3, 2160-2169.	2.3	12
11	Gelatin grafted poly(D,L-lactide) as an inhibitor of protein aggregation: An <i>in vitro</i> case study. <i>Biopolymers</i> , 2020, 111, e23383.	1.2	1
12	Surface Engineering Approaches for Controlling Biofilms and Wound Infections. <i>ACS Symposium Series</i> , 2019, , 101-123.	0.5	2
13	Kinetic study of NTPDase immobilization and its effect of haemocompatibility on polyethylene terephthalate. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 437-449.	1.9	0
14	Mechanistic Study on the Antibacterial Activity of Self-Assembled Poly(aryl ether)-Based Amphiphilic Dendrimers. <i>ACS Applied Bio Materials</i> , 2019, 2, 3212-3224.	2.3	34
15	Effect of Surface Finish on Wettability and Bacterial Adhesion of Micromachined Biomaterials. <i>Biotribology</i> , 2019, 18, 100095.	0.9	16
16	Role of hydrophobicity in tuning the intracellular uptake of dendron-based fluorophores for <i>in vitro</i> metal ion sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 180-189.	2.5	2
17	Cysteine immobilisation on the polyethylene terephthalate surfaces and its effect on the haemocompatibility. <i>Scientific Reports</i> , 2019, 9, 16694.	1.6	3
18	Immobilization of hyaluronic acid from <i>Lactococcus lactis</i> on polyethylene terephthalate for improved biocompatibility and drug release. <i>Carbohydrate Polymers</i> , 2019, 206, 132-140.	5.1	13

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19	Development of reduced graphene oxide (rGO)-isabgol nanocomposite dressings for enhanced vascularization and accelerated wound healing in normal and diabetic rats. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 251-264.	5.0	102
20	An investigation of konjac glucomannan-keratin hydrogel scaffold loaded with <i>Avena sativa</i> extracts for diabetic wound healing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 92-102.	2.5	69
21	Morin incorporated polysaccharide-protein (psyllium-keratin) hydrogel scaffolds accelerate diabetic wound healing in Wistar rats. <i>RSC Advances</i> , 2018, 8, 2305-2314.	1.7	49
22	A comparative study of polyethylene terephthalate surface carboxylation techniques: Characterization, in vitro haemocompatibility and endothelialization. <i>Reactive and Functional Polymers</i> , 2018, 122, 22-32.	2.0	21
23	Facile, shear-induced, rapid formation of stable gels of chitosan through <i>in situ</i> generation of colloidal metal salts. <i>Chemical Communications</i> , 2018, 54, 11582-11585.	2.2	10
24	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. <i>Royal Society Open Science</i> , 2018, 5, 172017.	1.1	60
25	Biomimetic hydrogel loaded with silk and proline for tissue engineering and wound healing applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1401-1408.	1.6	48
26	Differential Adhesive and Bioactive Properties of the Polymeric Surface Coated with Graphene Oxide Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4498-4508.	4.0	30
27	In vitro study of a glucose attached poly(aryl ether) dendron based gel as a drug carrier for a local anaesthetic. <i>New Journal of Chemistry</i> , 2017, 41, 7453-7462.	1.4	15
28	Accelerated Healing of Diabetic Wounds Treated with L-Glutamic acid Loaded Hydrogels Through Enhanced Collagen Deposition and Angiogenesis: An In Vivo Study. <i>Scientific Reports</i> , 2017, 7, 10701.	1.6	81
29	Isabgol-silk fibroin 3D composite scaffolds as an effective dermal substitute for cutaneous wound healing in rats. <i>RSC Advances</i> , 2016, 6, 73617-73626.	1.7	17
30	Fabrication of chitosan/gallic acid 3D microporous scaffold for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 750-760.	1.6	32
31	Silanization induced inherent strain in graphene based filler influencing mechanical properties of polycarbonate urethane nanocomposite membranes. <i>RSC Advances</i> , 2016, 6, 104235-104245.	1.7	5
32	Mechanical characterization of high-performance graphene oxide incorporated aligned fibroporous poly(carbonate urethane) membrane for potential biomedical applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	31
33	Studies on Encapsulation of Bovine Serum Albumin, Lysozyme and Insulin Through Coaxial Electrospinning. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 669-672.	0.0	10
34	Analysis of functionalized polyethylene terephthalate with immobilized NTPDase and cysteine. <i>Acta Biomaterialia</i> , 2009, 5, 3382-3393.	4.1	29
35	Proteome analysis to assess physiological changes in <i>Escherichia coli</i> grown under glucose-limited fed-batch conditions. <i>Biotechnology and Bioengineering</i> , 2005, 92, 384-392.	1.7	31
36	In silico reconstruction of nutrient-sensing signal transduction pathways in <i>Aspergillus nidulans</i> . <i>In Silico Biology</i> , 2004, 4, 605-31.	0.4	14