

Murugan A Munusamy

List of Publications by Year in descending order

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70
papers

3,024
citations

159585

30
h-index

175258

52
g-index

73
all docs

73
docs citations

73
times ranked

4168
citing authors

#	ARTICLE	IF	CITATIONS
1	Green-synthesized silver nanoparticles as a novel control tool against dengue virus (DEN-2) and its primary vector <i>Aedes aegypti</i> . <i>Parasitology Research</i> , 2015, 114, 3315-3325.	1.6	184
2	Green synthesis of Ag nanoparticles using Tamarind fruit extract for the antibacterial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 169, 178-185.	3.8	183
3	Characterization and biotoxicity of <i>Hypnea musciformis</i> -synthesized silver nanoparticles as potential eco-friendly control tool against <i>Aedes aegypti</i> and <i>Plutella xylostella</i> . <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 31-38.	6.0	176
4	<i>Sargassum muticum</i> -synthesized silver nanoparticles: an effective control tool against mosquito vectors and bacterial pathogens. <i>Parasitology Research</i> , 2015, 114, 4305-4317.	1.6	130
5	Preparation and characterization of activated carbon derived from the <i>Borassus flabellifer</i> flower as an electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , 2017, 41, 3939-3949.	2.8	119
6	Green synthesis of silver nanoparticles using <i>Pimpinella anisum</i> seeds: antimicrobial activity and cytotoxicity on human neonatal skin stromal cells and colon cancer cells. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4439-4449.	6.7	111
7	Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of <i>Pteridium aquilinum</i> leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. <i>Parasitology Research</i> , 2016, 115, 997-1013.	1.6	108
8	Predation by Asian bullfrog tadpoles, <i>Hoplobatrachus tigerinus</i> , against the dengue vector, <i>Aedes aegypti</i> , in an aquatic environment treated with mosquitocidal nanoparticles. <i>Parasitology Research</i> , 2015, 114, 3601-3610.	1.6	101
9	Eco-friendly control of malaria and arbovirus vectors using the mosquitofish <i>Gambusia affinis</i> and ultra-low dosages of <i>Mimusops elengi</i> -synthesized silver nanoparticles: towards an integrative approach?. <i>Environmental Science and Pollution Research</i> , 2015, 22, 20067-20083.	5.3	94
10	Earthworm-mediated synthesis of silver nanoparticles: A potent tool against hepatocellular carcinoma, <i>Plasmodium falciparum</i> parasites and malaria mosquitoes. <i>Parasitology International</i> , 2016, 65, 276-284.	1.3	73
11	Physical cues of cell culture materials lead the direction of differentiation lineages of pluripotent stem cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8032-8058.	5.8	67
12	Development of biotin molecule targeted cancer cell drug delivery of doxorubicin loaded β -carrageenan grafted graphene oxide nanocarrier. <i>Materials Science and Engineering C</i> , 2019, 100, 676-687.	7.3	67
13	External stimulus-responsive biomaterials designed for the culture and differentiation of ES, iPS, and adult stem cells. <i>Progress in Polymer Science</i> , 2014, 39, 1585-1613.	24.7	63
14	Generation of pluripotent stem cells without the use of genetic material. <i>Laboratory Investigation</i> , 2015, 95, 26-42.	3.7	62
15	Long-term xeno-free culture of human pluripotent stem cells on hydrogels with optimal elasticity. <i>Scientific Reports</i> , 2016, 5, 18136.	3.3	58
16	Efficiency of newly formulated camptothecin with β -cyclodextrin-EDTA-Fe ₃ O ₄ nanoparticle-conjugated nanocarriers as an anti-colon cancer (HT29) drug. <i>Scientific Reports</i> , 2017, 7, 10962.	3.3	54
17	Stem Cell Therapies for Reversing Vision Loss. <i>Trends in Biotechnology</i> , 2017, 35, 1102-1117.	9.3	54
18	Polymeric design of cell culture materials that guide the differentiation of human pluripotent stem cells. <i>Progress in Polymer Science</i> , 2017, 65, 83-126.	24.7	54

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19	Targeted delivery of rifampicin to tuberculosis-infected macrophages: design, in-vitro, and in-vivo performance of rifampicin-loaded poly(ester amide)s nanocarriers. <i>International Journal of Pharmaceutics</i> , 2016, 513, 628-635.	5.2	53
20	Datura metel-synthesized silver nanoparticles magnify predation of dragonfly nymphs against the malaria vector <i>Anopheles stephensi</i> . <i>Parasitology Research</i> , 2015, 114, 4645-4654.	1.6	52
21	Mucoadhesive guar gum hydrogel inter-connected chitosan-g-polycaprolactone micelles for rifampicin delivery. <i>Carbohydrate Polymers</i> , 2019, 206, 1-10.	10.2	52
22	Development of extended-voyaging anti-oxidant Linked Amphiphilic Polymeric Nanomicelles for Anti-Tuberculosis Drug Delivery. <i>International Journal of Pharmaceutics</i> , 2017, 524, 168-177.	5.2	50
23	Stem cell therapies for myocardial infarction in clinical trials: bioengineering and biomaterial aspects. <i>Laboratory Investigation</i> , 2017, 97, 1167-1179.	3.7	46
24	Continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces. <i>Biomaterials</i> , 2016, 76, 76-86.	11.4	45
25	Biomaterials used in stem cell therapy for spinal cord injury. <i>Progress in Materials Science</i> , 2019, 103, 374-424.	32.8	43
26	Xeno-free culture of human pluripotent stem cells on oligopeptide-grafted hydrogels with various molecular designs. <i>Scientific Reports</i> , 2017, 7, 45146.	3.3	42
27	Poly-carboxylic acids functionalized chitosan nanocarriers for controlled and targeted anti-cancer drug delivery. <i>Biomedicine and Pharmacotherapy</i> , 2016, 83, 201-211.	5.6	41
28	Hydrothermal synthesis of a mineral-substituted hydroxyapatite nanocomposite material for fluoride removal from drinking water. <i>New Journal of Chemistry</i> , 2018, 42, 12711-12721.	2.8	39
29	From waste to high-value product: Jackfruit peel derived pectin/apatite bionanocomposites for bone healing applications. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 293-301.	7.5	35
30	Sustainable pectin fascinating hydroxyapatite nanocomposite scaffolds to enhance tissue regeneration. <i>Sustainable Chemistry and Pharmacy</i> , 2017, 5, 46-53.	3.3	31
31	Magneto-chemotherapy for cervical cancer treatment with camptothecin loaded Fe ₃ O ₄ functionalized β ² -cyclodextrin nanovehicle. <i>RSC Advances</i> , 2017, 7, 46271-46285.	3.6	31
32	Stem Cell Therapy for Treatment of Ocular Disorders. <i>Stem Cells International</i> , 2016, 2016, 1-18.	2.5	30
33	Zn ²⁺ cross-linked sodium alginate-g-allylamine-mannose polymeric carrier of rifampicin for macrophage targeting tuberculosis nanotherapy. <i>New Journal of Chemistry</i> , 2017, 41, 11324-11334.	2.8	30
34	Osteoblast response to Vitamin D3 loaded cellulose enriched hydroxyapatite Mesoporous silica nanoparticles composite. <i>Biomedicine and Pharmacotherapy</i> , 2018, 103, 858-868.	5.6	30
35	A phosphorylated chitosan armed hydroxyapatite nanocomposite for advancing activity on osteoblast and osteosarcoma cells. <i>New Journal of Chemistry</i> , 2018, 42, 12457-12466.	2.8	30
36	Surface functionalization of natural lignin isolated from <i>Aloe barbadensis</i> Miller biomass by atom transfer radical polymerization for enhanced anticancer efficacy. <i>RSC Advances</i> , 2016, 6, 51310-51319.	3.6	29

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37	Recent Developments in $\hat{2}$ -Cell Differentiation of Pluripotent Stem Cells Induced by Small and Large Molecules. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23418-23447.	4.1	25
38	Osteoblast compatibility of minerals substituted hydroxyapatite reinforced poly(sorbitol sebacate) Tj ETQq0 0 0 rgBT/Overlogg 10 Tf 50	3.6	25
39	Deep Eutectic Solvent-Mediated FA- <i>g</i> / <i>i</i> - $\hat{2}$ -Alanine- <i>co</i> / <i>i</i> -PCL Drug Carrier for Sustainable and Site-Specific Drug Delivery. <i>ACS Applied Bio Materials</i> , 2018, 1, 2094-2109.	4.6	25
40	Purification of human adipose-derived stem cells from fat tissues using PLGA/silk screen hybrid membranes. <i>Biomaterials</i> , 2014, 35, 4278-4287.	11.4	24
41	Odontogenic epithelial stem cells: hidden sources. <i>Laboratory Investigation</i> , 2015, 95, 1344-1352.	3.7	24
42	The synthesis, characterization and in vivo study of mineral substituted hydroxyapatite for prospective bone tissue rejuvenation applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2661-2669.	3.3	24
43	Functional Ionic Liquid-Capped Graphene Quantum Dots for Chromium Removal from Chromium Contaminated Water. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 651-667.	1.9	24
44	A mannose-conjugated multi-layered polymeric nanocarrier system for controlled and targeted release on alveolar macrophages. <i>Polymer Chemistry</i> , 2018, 9, 656-667.	3.9	23
45	A hybrid-membrane migration method to isolate high-purity adipose-derived stem cells from fat tissues. <i>Scientific Reports</i> , 2015, 5, 10217.	3.3	22
46	Purification and differentiation of human adipose-derived stem cells by membrane filtration and membrane migration methods. <i>Scientific Reports</i> , 2017, 7, 40069.	3.3	22
47	Rapid biosynthesis of silver nanoparticles using <i>Crotalaria verrucosa</i> leaves against the dengue vector <i>Aedes aegypti</i> : what happens around? An analysis of dragonfly predatory behaviour after exposure at ultra-low doses. <i>Natural Product Research</i> , 2016, 30, 826-833.	1.8	21
48	Impact of dengue virus (serotype DENV-2) infection on liver of BALB/c mice: A histopathological analysis. <i>Tissue and Cell</i> , 2017, 49, 86-94.	2.2	21
49	A Green approach: synthesis, characterization and opto-magnetic properties of Mg _x Mn _{1-x} Fe ₂ O ₄ spinel nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10321-10329.	2.2	20
50	Stimulus-responsive zinc oxide-functionalized macromolecular humic acid nanocarrier for enhancement of antibacterial activity of ciprofloxacin hydrochloride. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 1109-1116.	7.5	20
51	Mineral substituted hydroxyapatite coatings deposited on nanoporous TiO ₂ modulate the directional growth and activity of osteoblastic cells. <i>RSC Advances</i> , 2015, 5, 58980-58988.	3.6	19
52	Inositol-6 phosphate inhibits the mTOR pathway and induces autophagy-mediated death in HT-29 colon cancer cells. <i>Archives of Medical Science</i> , 2018, 14, 1281-1288.	0.9	19
53	Assembling of multifunctional latex-based hybrid nanocarriers from <i>Calotropis gigantea</i> for sustained (doxorubicin) DOX releases. <i>Biomedicine and Pharmacotherapy</i> , 2017, 87, 461-470.	5.6	17
54	Stem cell culture on polyvinyl alcohol hydrogels having different elasticity and immobilized with ECM-derived oligopeptides. <i>Journal of Polymer Engineering</i> , 2017, 37, 647-660.	1.4	17

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55	Spectral Studies of UV and Solar Photocatalytic Degradation of AZO Dye and Textile Dye Effluents Using Green Synthesized Silver Nanoparticles. <i>Bioinorganic Chemistry and Applications</i> , 2016, 2016, 1-8.	4.1	16
56	Green-synthesised nanoparticles from <i>Melia azedarach</i> seeds and the cyclopoid crustacean <i>Cyclops vernalis</i> : an eco-friendly route to control the malaria vector <i>Anopheles stephensi</i> . <i>Natural Product Research</i> , 2016, 30, 2077-2084.	1.8	16
57	Phosphorylated κ -Carrageenan-Facilitated Chitosan Nanovehicle for Sustainable Anti-Tuberculosis Multi Drug Delivery. <i>ChemistrySelect</i> , 2017, 2, 7100-7107.	1.5	16
58	Xeno-free and feeder-free culture and differentiation of human embryonic stem cells on recombinant vitronectin-grafted hydrogels. <i>Biomaterials Science</i> , 2019, 7, 4345-4362.	5.4	14
59	Thermoresponsive surfaces designed for the proliferation and differentiation of human pluripotent stem cells. <i>Acta Biomaterialia</i> , 2020, 116, 162-173.	8.3	12
60	Pluripotency maintenance of amniotic fluid-derived stem cells cultured on biomaterials. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3858-3869.	5.8	11
61	Proliferation and osteogenic differentiation of amniotic fluid-derived stem cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5345-5354.	5.8	11
62	Mineral-substituted hydroxyapatite reinforced poly(raffinose-citric acid)-polyethylene glycol nanocomposite enhances osteogenic differentiation and induces ectopic bone formation. <i>New Journal of Chemistry</i> , 2017, 41, 3036-3047.	2.8	11
63	Modulatory and regenerative potential of transplanted bone marrow-derived mesenchymal stem cells on rifampicin-induced kidney toxicity. <i>Regenerative Therapy</i> , 2018, 9, 100-110.	3.0	7
64	Chemical composition of <i>Moringa oleifera</i> ethyl acetate fraction and its biological activity in diabetic human dermal fibroblasts. <i>Pharmacognosy Magazine</i> , 2017, 13, 462.	0.6	7
65	Development of biomaterial surfaces with and without microbial nanosegments. <i>Journal of Polymer Engineering</i> , 2016, 36, 1-12.	1.4	6
66	Human Pluripotent Stem Cell Culture on Polyvinyl Alcohol-Co-Itaconic Acid Hydrogels with Varying Stiffness Under Xeno-Free Conditions. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
67	Preparation, textural and photoluminescence characterization of green fluorescence protein-immobilised Ga-ZnO (GZO)-nanocomposites. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 202-212.	3.8	5
68	Micro-anatomical changes in major blood vessel caused by dengue virus (serotype 2) infection. <i>Acta Tropica</i> , 2017, 171, 213-219.	2.0	5
69	Data of continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces. <i>Data in Brief</i> , 2016, 6, 603-608.	1.0	1
70	Stem Cell Culture on Polymer Hydrogels. <i>Gels Horizons: From Science To Smart Materials</i> , 2018, , 357-408.	0.3	0