

# Aravind Kumar Rengan

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,357  
citations

489802

18  
h-index

388640

36  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkaloid-rich fraction of <i>Ervatamia coronaria</i> sensitizes colorectal cancer through modulating AMPK and mTOR signalling pathways. <i>Journal of Ethnopharmacology</i> , 2022, 283, 114666.	2.0	8
2	Herbal biomolecules as nutraceuticals. , 2022, , 525-549.		1
3	Modified Polyethylene Glycol Encapsulated Iron Oxide Nanoparticles for Accelerated Wound Healing Application. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 1-5.	1.1	2
4	Primary attempt towards bioapplicability of one-dimensional high entropy alloys. <i>Materials Letters</i> , 2022, 312, 131659.	1.3	4
5	Biocompatible, Flexible, and High-Performance Nanowelded Silver Nanowires on Silk Fibroin for Transparent Conducting Electrodes toward Biomemristor Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4473-4485.	3.2	9
6	Ascorbic acid assisted synthesis of fluorescent PEG for bioimaging application. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
7	Iron oxide nanoparticles for theranostic applications - Recent advances. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103196.	1.4	12
8	ZnO nanoparticles embedded silk fibroinâ€™a piezoelectric composite for nanogenerator applications. <i>Nanotechnology</i> , 2022, 33, 265403.	1.3	12
9	Multifunctional Polymeric Nanoparticles for Chemo/Phototheranostics of Retinoblastoma. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 151-160.	2.6	23
10	Theranostics: Principles, Materials, and Technical Advancements. , 2022, , 317-343.		0
11	A study on the role of eugenol encapsulated liposomes in facilitating neuron -microglia mediated wound recovery. <i>Materialia</i> , 2022, 23, 101454.	1.3	3
12	The Role of Hitchhiking in Cancer Therapeuticsâ€™A Review. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	5
13	Characterization and proteome profiling of extracellular vesicles in a murine model of <i>Staphylococcus aureus</i> endophthalmitis. <i>Microbes and Infection</i> , 2022, 24, 105014.	1.0	3
14	Enhanced permeability and retention effect: A key facilitator for solid tumor targeting by nanoparticles. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022, 39, 102915.	1.3	34
15	Plasma Functionalized Carbon Interfaces for Biosensor Application: Toward the Real-Time Detection of <i>Escherichia coli</i> O157:H7. <i>ACS Omega</i> , 2022, 7, 21025-21034.	1.6	6
16	Sand bath assisted green synthesis of carbon dots from citrus fruit peels for free radical scavenging and cell imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111362.	2.5	62
17	Iontophoresis mediated localized delivery of liposomal gold nanoparticles for photothermal and photodynamic therapy of acne. <i>Biomaterials Science</i> , 2021, 9, 1421-1430.	2.6	19
18	A Microscopic Analysis of Liposome Based Hydrophobic Drug Delivery. <i>Springer Proceedings in Materials</i> , 2021, , 221-231.	0.1	0

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19	Modified Fluorescent PEG-Based Carrier System for In-vitro Imaging. IOP Conference Series: Materials Science and Engineering, 2021, 1091, 012020.	0.3	0
20	Chitosan-based thermosensitive hydrogel entrapping calcein for visualizing localized drug delivery. Proceedings of the Indian National Science Academy, 2021, 87, 121-125.	0.5	2
21	Biodegradable/disintegrable nanohybrids for photothermal theranostics. Proceedings of the Indian National Science Academy, 2021, 87, 94-106.	0.5	1
22	A review of advanced nanoformulations in phototherapy for cancer therapeutics. Photodiagnosis and Photodynamic Therapy, 2021, 33, 102205.	1.3	41
23	Microfluidic design of tumor vasculature and nanoparticle uptake by cancer cells. Microfluidics and Nanofluidics, 2021, 25, 1.	1.0	5
24	Development of robust, ultra-smooth, flexible and transparent regenerated silk composite films for bio-integrated electronic device applications. International Journal of Biological Macromolecules, 2021, 176, 498-509.	3.6	14
25	Effect of pH on Isoliquiritigenin (ISL) fluorescence in lipo- polymeric system and metallic nanosystem. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 252, 119545.	2.0	2
26	Impact of dietary polyphenols on neuroinflammation-associated disorders. Neurological Sciences, 2021, 42, 3101-3119.	0.9	9
27	Self-Assembled Fluorosomeâ€“Polydopamine Complex for Efficient Tumor Targeting and Commingled Photodynamic/Photothermal Therapy of Triple-Negative Breast Cancer. Biomacromolecules, 2021, 22, 3926-3940.	2.6	19
28	Doxorubicin loaded polyvinylpyrrolidone-copper sulfide nanoparticles enabling mucoadhesiveness and chemo-photothermal synergism for effective killing of breast cancer cells. Materialia, 2021, 19, 101195.	1.3	13
29	Role of nano-sensitizers in radiation therapy of metastatic tumors. Cancer Treatment and Research Communications, 2021, 26, 100303.	0.7	7
30	A gold(i) 1,2,3-triazolylidene complex featuring the interaction between gold and methine hydrogen. Dalton Transactions, 2021, 50, 16514-16518.	1.6	8
31	The role played by bacterial infections in the onset and metastasis of cancer. Current Research in Microbial Sciences, 2021, 2, 100078.	1.4	10
32	In Situ Nanotransformable Hydrogel for Chemo-Photothermal Therapy of Localized Tumors and Targeted Therapy of Highly Metastatic Tumors. ACS Applied Materials & Interfaces, 2021, 13, 55862-55878.	4.0	9
33	Highly fluorescent polyethylene glycol-ascorbic acid complex for imaging and antimicrobial therapeutics. Materials Today Communications, 2021, 29, 102987.	0.9	1
34	Light-triggered selective ROS-dependent autophagy by bioactive nanoliposomes for efficient cancer theranostics. Nanoscale, 2020, 12, 2028-2039.	2.8	38
35	Biocompatible functionalized AuPd bimetallic nanoparticles decorated on reduced graphene oxide sheets for photothermal therapy of targeted cancer cells. Journal of Photochemistry and Photobiology B: Biology, 2020, 212, 112028.	1.7	33
36	Development of label-free gold nanoparticle based rapid colorimetric assay for clinical/point-of-care screening of cervical cancer. Nanoscale Advances, 2020, 2, 5737-5745.	2.2	8

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37	Aptamer-Mediated Nanotheranostics for Cancer Treatment: A Review. ACS Applied Nano Materials, 2020, 3, 9542-9559.	2.4	30
38	Eugenol-Encapsulated Nanocarriers for Microglial Polarisation: a Promising Therapeutic Application for Neuroprotection. BioNanoScience, 2020, 10, 1010-1017.	1.5	4
39	Facile synthesis and characterization of Poly (3, 4-ethylenedioxythiophene)/Molybdenum disulfide (PEDOT/MoS <sub>2</sub> ) composite coatings for potential neural electrode applications. Journal of Applied Electrochemistry, 2020, 50, 943-958.	1.5	4
40	Facile Synthesis of Fluorescent Polymer Encapsulated Metal (PoeM) Nanoparticles for Imaging and Therapeutic Applications. ACS Applied Polymer Materials, 2020, 2, 1388-1397.	2.0	15
41	NIR-dye based mucoadhesive nanosystem for photothermal therapy in breast cancer cells. Journal of Photochemistry and Photobiology B: Biology, 2020, 208, 111901.	1.7	16
42	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. Advances in Colloid and Interface Science, 2019, 271, 101991.	7.0	102
43	The "nano to micro" transition of hydrophobic curcumin crystals leading to <i>in situ</i> adjuvant depots for Au-liposome nanoparticle mediated enhanced photothermal therapy. Biomaterials Science, 2019, 7, 3866-3875.	2.6	34
44	Nanomaterials for Antibiofilm Activity. ACS Symposium Series, 2019, , 125-140.	0.5	1
45	Investigation on the discharge energy storage density of the Rb substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> relaxor ferroelectric and its suitability for the orthopedic application. Journal of the American Ceramic Society, 2019, 102, 6802-6816.	1.9	21
46	Timing The Therapeutic Trigger of Au Lipos Cur NPs for Effective Photothermal Therapy. , 2019, , .		3
47	Photothermal Therapy Assisted Bioactive Nanoprobe for Effective Cancer Theranostics. , 2019, , .		1
48	Optical Properties of Plasmonic Gold: A Possible Application for Screening of Cervical Cancer. , 2019, , .		1
49	Glycol chitosan assisted in situ reduction of gold on polymeric template for anti-cancer theranostics. International Journal of Biological Macromolecules, 2018, 110, 392-398.	3.6	15
50	Gold laced bio-macromolecules for theranostic application. International Journal of Biological Macromolecules, 2018, 110, 39-53.	3.6	22
51	Chlorophyll rich biomolecular fraction of A. cadamba loaded into polymeric nanosystem coupled with Photothermal Therapy: A synergistic approach for cancer theranostics. International Journal of Biological Macromolecules, 2018, 110, 383-391.	3.6	38
52	NIR triggered liposome gold nanoparticles entrapping curcumin as in situ adjuvant for photothermal treatment of skin cancer. International Journal of Biological Macromolecules, 2018, 110, 375-382.	3.6	81
53	Enhanced EPR directed and Imaging guided Photothermal Therapy using Vitamin E Modified Toco-Photoxil. Scientific Reports, 2018, 8, 16673.	1.6	18
54	In Vivo Analysis of Biodegradable Liposome Gold Nanoparticles as Efficient Agents for Photothermal Therapy of Cancer. Nano Letters, 2015, 15, 842-848.	4.5	338

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55	Biocompatible Amphiphilic Pentablock Copolymeric Nanoparticles for Anti-Cancer Drug Delivery. Journal of Biomedical Nanotechnology, 2014, 10, 109-119.	0.5	27
56	Gold Nanocages as Effective Photothermal Transducers in Killing Highly Tumorigenic Cancer Cells. Particle and Particle Systems Characterization, 2014, 31, 398-405.	1.2	28
57	Multifunctional gold coated thermo-sensitive liposomes for multimodal imaging and photo-thermal therapy of breast cancer cells. Nanoscale, 2014, 6, 916-923.	2.8	133
58	Thermosensitive gold-liposome hybrid nanostructures for photothermal therapy of cancer. , 2012, , .		1
59	A simple and efficient approach for the clickability of super bulky aryl azides. Journal of Heterocyclic Chemistry, 0, , .	1.4	1