

# Shanmugavel Chinnathambi

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

951  
citations

516710  
16  
h-index

454955  
30  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon Quantum Dots for Biological Applications. <i>Advanced Healthcare Materials</i> , 2014, 3, 10-29.	7.6	163
2	Recent advances on fluorescent biomarkers of near-infrared quantum dots for <i>in vitro</i> and <i>in vivo</i> imaging. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 337-355.	6.1	131
3	Synthesis and characterization of hafnium oxide nanoparticles for bio-safety. <i>Materials Express</i> , 2014, 4, 375-383.	0.5	52
4	Binding Mode of CpG Oligodeoxynucleotides to Nanoparticles Regulates Bifurcated Cytokine induction via Toll-like Receptor 9. <i>Scientific Reports</i> , 2012, 2, 534.	3.3	51
5	Investigations on the interactions of 5-fluorouracil with bovine serum albumin: Optical spectroscopic and molecular modeling studies. <i>Journal of Luminescence</i> , 2014, 151, 1-10.	3.1	49
6	Quercetin loaded PLGA microspheres induce apoptosis in breast cancer cells. <i>Applied Surface Science</i> , 2019, 487, 211-217.	6.1	35
7	Exploring the Binding Interaction Mechanism of Taxol in $\beta$ -Tubulin and Bovine Serum Albumin: A Biophysical Approach. <i>Molecular Pharmaceutics</i> , 2019, 16, 669-681.	4.6	33
8	Inverted Device Architecture for Enhanced Performance of Flexible Silicon Quantum Dot Light-Emitting Diode. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5400-5407.	4.6	32
9	Fabrication of novel collagen-silica hybrid membranes with tailored biodegradation and strong cell contact guidance ability. <i>Journal of Materials Chemistry</i> , 2012, 22, 21885.	6.7	27
10	Paclitaxel conjugated Fe <sub>3</sub> O <sub>4</sub> @LaF <sub>3</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> nanoparticles as bifunctional targeting carriers for Cancer theranostics application. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 399, 207-215.	2.3	27
11	Comparative Binding Analysis of <i>N</i> -Acetylneuraminic Acid in Bovine Serum Albumin and Human $\alpha$ -1 Acid Glycoprotein. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 326-338.	5.4	26
12	Biocompatible CdSe/ZnS quantum dot micelles for long-term cell imaging without alteration to the native structure of the blood plasma protein human serum albumin. <i>RSC Advances</i> , 2017, 7, 2392-2402.	3.6	24
13	Simplified detection of the hybridized DNA using a graphene field effect transistor. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 43-50.	6.1	23
14	Effect of molecular weight of polyethyleneimine on loading of CpG oligodeoxynucleotides onto flake-shell silica nanoparticles for enhanced TLR9-mediated induction of interferon- $\alpha$ ; <i>International Journal of Nanomedicine</i> , 2012, 7, 3625.	6.7	20
15	A cytotoxicity, optical spectroscopy and computational binding analysis of 4- $\{3$ -acetyl-5-(acetylamino)-2-methyl-3,4-dihydro-1,3,4-thiadiazole-2-yl $\}$ phenyl benzoate in calf thymus DNA. <i>Luminescence</i> , 2018, 33, 731-741.		
16	Synthesis and formulation of methotrexate (MTX) conjugated LaF <sub>3</sub> :Tb <sup>3+</sup> /chitosan nanoparticles for targeted drug delivery applications. <i>Biomedicine and Pharmacotherapy</i> , 2015, 69, 170-178.	5.6	19
17	Recent Development to Explore the Use of Biodegradable Periodic Mesoporous Organosilica (BPMO) Nanomaterials for Cancer Therapy. <i>Pharmaceutics</i> , 2020, 12, 890.	4.5	19
18	Underlying the Mechanism of 5-Fluorouracil and Human Serum Albumin Interaction: A Biophysical Study. , 2016, 6, .		18

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19	Synthesis and fast transfer of monolayer MoS <sub>2</sub> on reusable fused silica. <i>Nanoscale</i> , 2017, 9, 6984-6990.	5.6	18
20	Synthesis of novel chitosan-silica/CpG oligodeoxynucleotide nanohybrids with enhanced delivery efficiency. <i>Materials Science and Engineering C</i> , 2013, 33, 3382-3388.	7.3	15
21	Generation of microgrooved silica nanotube membranes with sustained drug delivery and cell contact guidance ability by using a Teflon microfluidic chip. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 015005.	6.1	15
22	Nano-Bio Interaction between Blood Plasma Proteins and Water-Soluble Silicon Quantum Dots with Enabled Cellular Uptake and Minimal Cytotoxicity. <i>Nanomaterials</i> , 2020, 10, 2250.	4.1	15
23	Construction of Boronophenylalanine-Loaded Biodegradable Periodic Mesoporous Organosilica Nanoparticles for BNCT Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2251.	4.1	15
24	Investigation of Optical Spectroscopic and Computational Binding Mode of Bovine Serum Albumin with 1, 4-Bis ((4-(Heptylpiperazin-1-yl) Methyl)-1, 2, 3-Triazol-1-yl) Methyl) Benzene, <i>Journal of Biochemical and Molecular Toxicology</i> , 2015, 29, 373-381.	3.0	14
25	Effect of Moderate UVC Irradiation on Bovine Serum Albumin and Complex with Antimetabolite 5-Fluorouracil: Fluorescence Spectroscopic and Molecular Modelling Studies. <i>International Journal of Spectroscopy</i> , 2015, 2015, 1-12.	1.6	12
26	Synthesis of 5-Fluorouracil conjugated LaF <sub>3</sub> :Tb <sup>3+</sup> /PEG-COOH nanoparticles and its studies on the interaction with bovine serum albumin: spectroscopic approach. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	11
27	Molecular interaction of silicon quantum dot micelles with plasma proteins: hemoglobin and thrombin. <i>RSC Advances</i> , 2019, 9, 14928-14936.	3.6	11
28	Insights into the Binding of 3-(1-Phenylsulfonyl-2-methylindol-3-ylcarbonyl) Propanoic Acid to Bovine Serum Albumin: Spectroscopy and Molecular Modelling Studies. <i>Nano Biomedicine and Engineering</i> , 2015, 7, .	0.9	10
29	Iodine containing porous organosilica nanoparticles trigger tumor spheroids destruction upon monochromatic X-ray irradiation: DNA breaks and K-edge energy X-ray. <i>Scientific Reports</i> , 2021, 11, 14192.	3.3	10
30	Investigations on the Interactions of 5-Fluorouracil with Herring Sperm DNA: Steady State/Time Resolved and Molecular Modeling Studies. <i>Biophysical Reviews and Letters</i> , 2015, 10, 115-133.	0.8	8
31	Large-Scale Fabrication of Free-Standing, Micropatterned Silica Nanotubes Via a Hybrid Hydrogel-templated Route. <i>Advanced Healthcare Materials</i> , 2013, 2, 1091-1095.	7.6	5
32	A pilot study on parallel factor analysis as a diagnostic tool for oral cancer diagnosis: A statistical modeling approach. <i>Journal of Chemometrics</i> , 2021, 35, e3315.	1.3	5
33	A Compact Sensory Platform Based pH Sensor Using Graphene Field Effect Transistor. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3299-3305.	0.9	5
34	Regulation of bifurcated cytokine induction by surface charge of nanoparticles during interaction between CpG oligodeoxynucleotides and toll-like receptor 9. <i>Journal of Drug Delivery Science and Technology</i> , 2015, 29, 251-260.	3.0	3
35	Facile Formation of Stable Water-Dispersed Luminescent Silicon Nanocrystals by Laser Processing in Liquid: Toward Fluorescent Labeling for Bio-imaging. <i>ChemNanoMat</i> , 2019, 5, 1137-1143.	2.8	3
36	Photostability of quantum dot micelles under ultraviolet irradiation. <i>Luminescence</i> , 2019, 34, 472-479.	2.9	3

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