Madhavan Nair

List of Publications by Year
in descending order

89	5,272	87401	100535
papers	citations	40 h-index	70 g-index

91	91	91	8117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances, status, and opportunities of magneto-electric nanocarriers for biomedical applications. Molecular Aspects of Medicine, 2022, 83, 101046.	2.7	11
2	Single-Entity Approach to Investigate Surface Charge Enhancement in Magnetoelectric Nanoparticles Induced by AC Magnetic Field Stimulation. ACS Sensors, 2021, 6, 340-347.	4.0	17
3	SARS-CoV-2 Infection in the Central and Peripheral Nervous System-Associated Morbidities and Their Potential Mechanism. Molecular Neurobiology, 2021, 58, 2465-2480.	1.9	55
4	Autophagy-Dependent Increased ADAM10 Mature Protein Induced by TFEB Overexpression Is Mediated Through PPARÎ±. Molecular Neurobiology, 2021, 58, 2269-2283.	1.9	5
5	Brain-Accumulating Nanoparticles for Assisting Astrocytes to Reduce Human Immunodeficiency Virus and Drug Abuse-Induced Neuroinflammation and Oxidative Stress. ACS Nano, 2021, 15, 15741-15753.	7.3	21
6	TFEB protein expression is reduced in aged brains and its overexpression mitigates senescence-associated biomarkers and memory deficits in mice. Neurobiology of Aging, 2021, 106, 26-36.	1.5	17
7	Nanotheranostic, Next Generation Prerequisite for Better Health. Journal of Nanotheranostics, 2020, 1, 1-5.	1.7	3
8	Gold nanocubes embedded biocompatible hybrid hydrogels for electrochemical detection of H2O2. Bioelectrochemistry, 2020, 131, 107373.	2.4	50
9	The Paradox of HIV Bloodâ€“Brain Barrier Penetrance and Antiretroviral Drug Delivery Deficiencies. Trends in Neurosciences, 2020, 43, 695-708.	4.2	85
10	Development of Multifunctional Biopolymeric Auto-Fluorescent Micro- and Nanogels as a Platform for Biomedical Applications. Frontiers in Bioengineering and Biotechnology, 2020, 8, 315.	2.0	26
11	Reduced-Beclin1-Expressing Mice Infected with Zika-R103451 and Viral-Associated Pathology during Pregnancy. Viruses, 2020, 12, 608.	1.5	7
12	Magneto-plasmonic nanostars for image-guided and NIR-triggered drug delivery. Scientific Reports, 2020, 10, 10115.	1.6	49
13	Nanotechnology in Treating HIV in the Brain. Nanoscience and Nanotechnology - Asia, 2020, 10, 93-94.	0.3	1
14	Alzheimerâ€™s disease: pathogenesis, diagnostics, and therapeutics . International Journal of Nanomedicine, 2019, Volume 14, 5541-5554.	3.3	646
15	Impact of Nanoclay on the pH-Responsiveness and Biodegradable Behavior of Biopolymer-Based Nanocomposite Hydrogels. Gels, 2019, 5, 44.	2.1	3
16	Long Noncoding Transcriptome in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 678-688.	1.4	38
17	MRI-Guided, Noninvasive Delivery of Magneto-Electric Drug Nanocarriers to the Brain in a Nonhuman Primate. ACS Applied Bio Materials, 2019, 2, 4826-4836.	2.3	30
18	Selective Disruption of the Bloodâ€“Brain Barrier by Zika Virus. Frontiers in Microbiology, 2019, 10, 2158.	1.5	56

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19	Surface-engineered multimodal magnetic nanoparticles to manage CNS diseases. Drug Discovery Today, 2019, 24, 873-882.	3.2	51
20	Magnetically guided non-invasive CRISPR-Cas9/gRNA delivery across blood-brain barrier to eradicate latent HIV-1 infection. Scientific Reports, 2019, 9, 3928.	1.6	86
21	Recalcitrant Issues and New Frontiers in Nano-Pharmacology. Frontiers in Pharmacology, 2019, 10, 1369.	1.6	28
22	Targeted Mitochondrial COQ₁₀ Delivery Attenuates Antiretroviral-Drug-Induced Senescence of Neural Progenitor Cells. Molecular Pharmaceutics, 2019, 16, 724-736.	2.3	37
23	Cell-Line-Based Studies of Nanotechnology Drug-Delivery Systems. , 2019, , 375-393.		5
24	Inhibition of Amyloid-Beta Production, Associated Neuroinflammation, and Histone Deacetylase 2-Mediated Epigenetic Modifications Prevent Neuropathology in Alzheimerâ€™s Disease in vitro Model. Frontiers in Aging Neuroscience, 2019, 11, 342.	1.7	31
25	Nanomedicine for neuroHIV/AIDS management. Nanomedicine, 2018, 13, 669-673.	1.7	29
26	Characterization of Nanodiamond-based anti-HIV drug Delivery to the Brain. Scientific Reports, 2018, 8, 1603.	1.6	72
27	Advances in Carbon Nanotubesâ€“Hydrogel Hybrids in Nanomedicine for Therapeutics. Advanced Healthcare Materials, 2018, 7, e1701213.	3.9	143
28	Near-infrared biophotonics-based nanodrug release systems and their potential application for neuro-disorders. Expert Opinion on Drug Delivery, 2018, 15, 137-152.	2.4	16
29	Personalized nanomedicine for CNS diseases. Drug Discovery Today, 2018, 23, 1007-1015.	3.2	73
30	Hybrid magneto-plasmonic liposomes for multimodal image-guided and brain-targeted HIV treatment. Nanoscale, 2018, 10, 184-194.	2.8	61
31	Trichostatin A Shows Transient Protection from Chronic Alcohol-Induced Reactive Oxygen Species (ROS) Production in Human Monocyte-Derived Dendritic Cells. Journal of Alcoholism and Drug Dependence, 2018, 06, .	0.2	4
32	Nanocomposite Hydrogels: Advances in Nanofillers Used for Nanomedicine. Gels, 2018, 4, 75.	2.1	62
33	Multifunctional Nanotherapeutics for the Treatment of neuroAIDS in Drug Abusers. Scientific Reports, 2018, 8, 12991.	1.6	26
34	Nanogels as potential drug nanocarriers for CNS drug delivery. Drug Discovery Today, 2018, 23, 1436-1443.	3.2	101
35	A sensitive electrochemical immunosensor for label-free detection of Zika-virus protein. Scientific Reports, 2018, 8, 9700.	1.6	148
36	Extreme sensitive metasensor for targeted biomarkers identification using colloidal nanoparticles-integrated plasmonic unit cells. Biomedical Optics Express, 2018, 9, 373.	1.5	116

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37	Cigarette smoke and HIV synergistically affect lung pathology in cynomolgus macaques. Journal of Clinical Investigation, 2018, 128, 5428-5433.	3.9	21
38	Electro-Magnetic Nano-Particle Bound Beclin1 siRNA Crosses the Bloodâ€“Brain Barrier to Attenuate the Inflammatory Effects of HIV-1 Infection in Vitro. Journal of NeuroImmune Pharmacology, 2017, 12, 120-132.	2.1	39
39	Intranasal drug delivery of small interfering RNA targeting Beclin1 encapsulated with polyethylenimine (PEI) in mouse brain to achieve HIV attenuation. Scientific Reports, 2017, 7, 1862.	1.6	78
40	Investigation of ac-magnetic field stimulated nanoelectroporation of magneto-electric nano-drug-carrier inside CNS cells. Scientific Reports, 2017, 7, 45663.	1.6	51
41	Novel nanoformulation to mitigate co-effects of drugs of abuse and HIV-1 infection: towards the treatment of NeuroAIDS. Journal of NeuroVirology, 2017, 23, 603-614.	1.0	20
42	Rapid Detection of Infectious Envelope Proteins by Magnetoplasmonic Toroidal Metasensors. ACS Sensors, 2017, 2, 1359-1368.	4.0	158
43	Î²-Amyloid Biomarker Detection for Alzheimerâ€™s Disease. Journal of Analysis and Testing, 2017, 1, 1.	2.5	8
44	Development of magneto-plasmonic nanoparticles for multimodal image-guided therapy to the brain. Nanoscale, 2017, 9, 764-773.	2.8	62
45	Electrochemical Biosensors for Early Stage Zika Diagnostics. Trends in Biotechnology, 2017, 35, 308-317.	4.9	77
46	Bioresponsive Injectable Hydrogels for On-demand Drug Release and Tissue Engineering. Current Pharmaceutical Design, 2017, 23, 3595-3602.	0.9	38
47	Future Prospects and Vision. , 2017, , 231-234.		1
48	Advancements in nano-enabled therapeutics for neuroHIV management. International Journal of Nanomedicine, 2016, Volume 11, 4317-4325.	3.3	33
49	TEM Investigation of Nanocarriers Distribution in Mice Brain. Microscopy and Microanalysis, 2016, 22, 1172-1173.	0.2	4
50	Development of TIMP1 magnetic nanoformulation for regulation of synaptic plasticity in HIV-1 infection. International Journal of Nanomedicine, 2016, Volume 11, 4287-4298.	3.3	20
51	A label-free electrochemical immunosensor for beta-amyloid detection. Analytical Methods, 2016, 8, 6115-6120.	1.3	44
52	Effect of Cocaine on HIV Infection and Inflammasome Gene Expression Profile in HIV Infected Macrophages. Scientific Reports, 2016, 6, 27864.	1.6	37
53	Gene-expression reversal of lncRNAs and associated mRNAs expression in active vs latent HIV infection. Scientific Reports, 2016, 6, 34862.	1.6	10
54	Current status of non-viral gene therapy for CNS disorders. Expert Opinion on Drug Delivery, 2016, 13, 1433-1445.	2.4	73

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55	Magnetic nanotherapeutics for dysregulated synaptic plasticity during neuroAIDS and drug abuse. Molecular Brain, 2016, 9, 57.	1.3	18
56	Recent trends on hydrogel based drug delivery systems for infectious diseases. Biomaterials Science, 2016, 4, 1535-1553.	2.6	54
57	Electrochemical monitoring-on-chip (E-MoC) of HIV-infection in presence of cocaine and therapeutics. Biosensors and Bioelectronics, 2016, 86, 426-431.	5.3	27
58	Magnetically guided central nervous system delivery and toxicity evaluation of magneto-electric nanocarriers. Scientific Reports, 2016, 6, 25309.	1.6	92
59	Characterization of Human Monocyte-derived Dendritic Cells by Imaging Flow Cytometry: A Comparison between Two Monocyte Isolation Protocols. Journal of Visualized Experiments, 2016, , .	0.2	12
60	Nano-biosensors to detect beta-amyloid for Alzheimer's disease management. Biosensors and Bioelectronics, 2016, 80, 273-287.	5.3	145
61	Getting into the brain: Potential of nanotechnology in the management of NeuroAIDS. Advanced Drug Delivery Reviews, 2016, 103, 202-217.	6.6	151
62	Towards detection and diagnosis of Ebola virus disease at point-of-care. Biosensors and Bioelectronics, 2016, 75, 254-272.	5.3	127
63	Solving the Blood-Brain Barrier Challenge for the Effective Treatment of HIV Replication in the Central Nervous System. Current Pharmaceutical Design, 2016, 22, 5477-5486.	0.9	30
64	Therapeutical Neurotargeting via Magnetic Nanocarrier: Implications to Opiate-Induced Neuropathogenesis and NeuroAIDS. Journal of Biomedical Nanotechnology, 2015, 11, 1722-1733.	0.5	30
65	Investigation of Neuropathogenesis in HIV-1 Clade B and C Infection Associated with IL-33 and ST2 Regulation. ACS Chemical Neuroscience, 2015, 6, 1600-1612.	1.7	26
66	Sterile alpha motif and histidine/aspartic acid domain-containing protein 1 (SAMHD1)-facilitated HIV restriction in astrocytes is regulated by miRNA-181a. Journal of Neuroinflammation, 2015, 12, 66.	3.1	30
67	Preparation and characterization of anti-HIV nanodrug targeted to microfold cell of gut-associated lymphoid tissue. International Journal of Nanomedicine, 2015, 10, 5819.	3.3	25
68	Platelets Contribute to BBB Disruption Induced by HIV and Alcohol. Journal of Alcoholism and Drug Dependence, 2015, 03, 182.	0.2	10
69	DJ1 expression downregulates in neuroblastoma cells (SK-N-MC) chronically exposed to HIV-1 and cocaine. Frontiers in Microbiology, 2015, 6, 749.	1.5	6
70	Role of MRP transporters in regulating antimicrobial drug inefficacy and oxidative stress-induced pathogenesis during HIV-1 and TB infections. Frontiers in Microbiology, 2015, 6, 948.	1.5	15
71	Sustained-release nanoART formulation for the treatment of neuroAIDS. International Journal of Nanomedicine, 2015, 10, 1077.	3.3	94
72	Synaptic Plasticity and Neurological Disorders in Neurotropic Viral Infections. Neural Plasticity, 2015, 2015, 1-14.	1.0	15

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73	Drugs of Abuse in HIV infection and neurotoxicity. Frontiers in Microbiology, 2015, 6, 217.	1.5	16
74	Organicâ€“Inorganic Hybrid Nanocomposite-Based Gas Sensors for Environmental Monitoring. Chemical Reviews, 2015, 115, 4571-4606.	23.0	429
75	Electrochemical sensing method for point-of-care cortisol detection in human immunodeficiency virus-infected patients. International Journal of Nanomedicine, 2015, 10, 677.	3.3	49
76	The potential of HIV-1 nanotherapeutics: from in vitro studies to clinical trials. Nanomedicine, 2015, 10, 3597-3609.	1.7	43
77	HIV-1 Subtypes B and C Tat Differentially Impact Synaptic Plasticity Expression and Implicates HIV-Associated Neurocognitive Disorders§. Current HIV Research, 2015, 12, 397-405.	0.2	23
78	Nanostructured Gas Sensors for Health Care: An Overview. Journal of Personalized Nano Medicine, 2015, 1, 10-23.	0.8	4
79	Personalized NanoMedicine: Towards new Theranostic Approach. Journal of Personalized Nano Medicine, 2015, 1, 1-2.	0.8	2
80	Silica nanowires: Growth, integration, and sensing applications. Mikrochimica Acta, 2014, 181, 1759-1780.	2.5	38
81	Towards nanomedicines for neuroAIDS. Reviews in Medical Virology, 2014, 24, 103-124.	3.9	64
82	The potential of magneto-electric nanocarriers for drug delivery. Expert Opinion on Drug Delivery, 2014, 11, 1635-1646.	2.4	89
83	Alcohol Abuse and HIV Infection: Role of DRD2. Current HIV Research, 2014, 12, 234-242.	0.2	3
84	Externally controlled on-demand release of anti-HIV drug using magneto-electric nanoparticles as carriers. Nature Communications, 2013, 4, 1707.	5.8	193
85	Magneto-electric Nanoparticles to Enable Field-controlled High-Specificity Drug Delivery to Eradicate Ovarian Cancer Cells. Scientific Reports, 2013, 3, 2953.	1.6	123
86	Targeted Brain Derived Neurotropic Factors (BDNF) Delivery across the Blood-Brain Barrier for Neuro-Protection Using Magnetic Nano Carriers: An In-Vitro Study. PLoS ONE, 2013, 8, e62241.	1.1	109
87	Cocaine Enhances HIV-1 Infectivity in Monocyte Derived Dendritic Cells by Suppressing microRNA-155. PLoS ONE, 2013, 8, e83682.	1.1	44
88	Circadian Immune Measures in Healthy Volunteers. Psychosomatic Medicine, 1997, 59, 42-50.	1.3	97
89	Immune Function in Alcoholism: A Controlled Study. Alcoholism: Clinical and Experimental Research, 1993, 17, 279-283.	1.4	50