

Ajeet K Kaushik

List of Publications by Year in descending order

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Version: 2024-02-01

246
papers

13,385
citations

19657

61
h-index

31849

101
g-index

254
all docs

254
docs citations

254
times ranked

13901
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Alzheimerâ€™s disease: pathogenesis, diagnostics, and therapeutics</p>. International Journal of Nanomedicine, 2019, Volume 14, 5541-5554.	6.7	646
2	Nanostructured metal oxide-based biosensors. NPG Asia Materials, 2011, 3, 17-24.	7.9	612
3	Organicâ€™Inorganic Hybrid Nanocomposite-Based Gas Sensors for Environmental Monitoring. Chemical Reviews, 2015, 115, 4571-4606.	47.7	429
4	Iron oxide nanoparticlesâ€™chitosan composite based glucose biosensor. Biosensors and Bioelectronics, 2008, 24, 676-683.	10.1	422
5	Zinc oxide nanoparticles-chitosan composite film for cholesterol biosensor. Analytica Chimica Acta, 2008, 616, 207-213.	5.4	250
6	Recent advances in cortisol sensing technologies for point-of-care application. Biosensors and Bioelectronics, 2014, 53, 499-512.	10.1	238
7	Reviewâ€™Towards 5th Generation AI and IoT Driven Sustainable Intelligent Sensors Based on 2D MXenes and Borophene. , 2022, 1, 013601.		238
8	Solâ€™gel derived nanoporous cerium oxide film for application to cholesterol biosensor. Electrochemistry Communications, 2008, 10, 1246-1249.	4.7	213
9	Iron oxide-chitosan nanobiocomposite for urea sensor. Sensors and Actuators B: Chemical, 2009, 138, 572-580.	7.8	205
10	Functionalized terahertz plasmonic metasensors: Femtomolar-level detection of SARS-CoV-2 spike proteins. Biosensors and Bioelectronics, 2021, 177, 112971.	10.1	203
11	Internet of medical things (IoMT)-integrated biosensors for point-of-care testing of infectious diseases. Biosensors and Bioelectronics, 2021, 179, 113074.	10.1	203
12	Electrochemical SARS-CoV-2 Sensing at Point-of-Care and Artificial Intelligence for Intelligent COVID-19 Management. ACS Applied Bio Materials, 2020, 3, 7306-7325.	4.6	171
13	Rapid Detection of Infectious Envelope Proteins by Magnetoplasmonic Toroidal Metasensors. ACS Sensors, 2017, 2, 1359-1368.	7.8	158
14	Getting into the brain: Potential of nanotechnology in the management of NeuroAIDS. Advanced Drug Delivery Reviews, 2016, 103, 202-217.	13.7	151
15	A sensitive electrochemical immunosensor for label-free detection of Zika-virus protein. Scientific Reports, 2018, 8, 9700.	3.3	148
16	Nano-biosensors to detect beta-amyloid for Alzheimer's disease management. Biosensors and Bioelectronics, 2016, 80, 273-287.	10.1	145
17	Soft Template Synthesis of Super Paramagnetic Fe3O4 Nanoparticles a Novel Technique. Journal of Inorganic and Organometallic Polymers and Materials, 2009, 19, 355-360.	3.7	144
18	Advances in Carbon Nanotubesâ€™Hydrogel Hybrids in Nanomedicine for Therapeutics. Advanced Healthcare Materials, 2018, 7, e1701213.	7.6	143

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19	Nano-enabled biosensing systems for intelligent healthcare: towards COVID-19 management. <i>Materials Today Chemistry</i> , 2020, 17, 100306.	3.5	140
20	Electrochemical cortisol immunosensors based on sonochemically synthesized zinc oxide 1D nanorods and 2D nanoflakes. <i>Biosensors and Bioelectronics</i> , 2015, 63, 124-130.	10.1	136
21	A low-cost miniaturized potentiostat for point-of-care diagnosis. <i>Biosensors and Bioelectronics</i> , 2014, 62, 249-254.	10.1	133
22	Chitosan-iron oxide nanobiocomposite based immunosensor for ochratoxin-A. <i>Electrochemistry Communications</i> , 2008, 10, 1364-1368.	4.7	130
23	Nanostructured zinc oxide platform for mycotoxin detection. <i>Bioelectrochemistry</i> , 2010, 77, 75-81.	4.6	127
24	Towards detection and diagnosis of Ebola virus disease at point-of-care. <i>Biosensors and Bioelectronics</i> , 2016, 75, 254-272.	10.1	127
25	Core-shell nanostructures: perspectives towards drug delivery applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8992-9027.	5.8	127
26	Multi-walled carbon nanotubes/sol-gel-derived silica/chitosan nanobiocomposite for total cholesterol sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 727-735.	7.8	121
27	Extreme sensitive metasensor for targeted biomarkers identification using colloidal nanoparticles-integrated plasmonic unit cells. <i>Biomedical Optics Express</i> , 2018, 9, 373.	2.9	116
28	Zinc oxide-chitosan nanobiocomposite for urea sensor. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	111
29	An LTCC-based microfluidic system for label-free, electrochemical detection of cortisol. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 139-146.	7.8	111
30	A nanostructured cerium oxide film-based immunosensor for mycotoxin detection. <i>Nanotechnology</i> , 2009, 20, 055105.	2.6	106
31	Nanostructured zinc oxide platform for cholesterol sensor. <i>Applied Physics Letters</i> , 2009, 94, 143901.	3.3	105
32	Electrochemical Cholesterol Sensor Based on Tin Oxide-Chitosan Nanobiocomposite Film. <i>Electroanalysis</i> , 2009, 21, 965-972.	2.9	103
33	Nanogels as potential drug nanocarriers for CNS drug delivery. <i>Drug Discovery Today</i> , 2018, 23, 1436-1443.	6.4	101
34	Nanostructured zinc oxide film for urea sensor. <i>Materials Letters</i> , 2009, 63, 2473-2475.	2.6	100
35	Bio-acceptable 0D and 1D ZnO nanostructures for cancer diagnostics and treatment. <i>Materials Today</i> , 2021, 50, 533-569.	14.2	95
36	Sustained-release nanoART formulation for the treatment of neuroAIDS. <i>International Journal of Nanomedicine</i> , 2015, 10, 1077.	6.7	94

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37	Magnetically guided central nervous system delivery and toxicity evaluation of magneto-electric nanocarriers. <i>Scientific Reports</i> , 2016, 6, 25309.	3.3	92
38	Electrochemical immunosensor for label free epidermal growth factor receptor (EGFR) detection. <i>Biosensors and Bioelectronics</i> , 2013, 39, 300-305.	10.1	90
39	Emerging nanobiotechnology in agriculture for the management of pesticide residues. <i>Journal of Hazardous Materials</i> , 2021, 401, 123369.	12.4	90
40	The potential of magneto-electric nanocarriers for drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 1635-1646.	5.0	89
41	Recent advances in cytochrome c biosensing technologies. <i>Biosensors and Bioelectronics</i> , 2017, 87, 654-668.	10.1	88
42	Pesticide pollution of River Ghaggar in Haryana, India. <i>Environmental Monitoring and Assessment</i> , 2010, 160, 61-69.	2.7	87
43	Microwave-assisted assembly of Ag ₂ O-ZnO composite nanocones for electrochemical detection of 4-Nitrophenol and assessment of their photocatalytic activity towards degradation of 4-Nitrophenol and Methylene blue dye. <i>Journal of Hazardous Materials</i> , 2021, 416, 125771.	12.4	87
44	Nanostructured cerium oxide film for triglyceride sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 551-556.	7.8	86
45	Magnetically guided non-invasive CRISPR-Cas9/gRNA delivery across blood-brain barrier to eradicate latent HIV-1 infection. <i>Scientific Reports</i> , 2019, 9, 3928.	3.3	86
46	Ultrasensitive and Reusable Graphene Oxide-Modified Double-Interdigitated Capacitive (DIDC) Sensing Chip for Detecting SARS-CoV-2. <i>ACS Sensors</i> , 2021, 6, 3468-3476.	7.8	85
47	Microglia-derived HIV Nef+ exosome impairment of the blood-brain barrier is treatable by nanomedicine-based delivery of Nef peptides. <i>Journal of NeuroVirology</i> , 2016, 22, 129-139.	2.1	84
48	Perspective—Electrochemical Sensors for Soil Quality Assessment. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037550.	2.9	80
49	Intranasal drug delivery of small interfering RNA targeting Beclin1 encapsulated with polyethylenimine (PEI) in mouse brain to achieve HIV attenuation. <i>Scientific Reports</i> , 2017, 7, 1862.	3.3	78
50	Electrochemical Biosensors for Early Stage Zika Diagnostics. <i>Trends in Biotechnology</i> , 2017, 35, 308-317.	9.3	77
51	Emergence of MXene—Polymer Hybrid Nanocomposites as High-Performance Next-Generation Chemiresistors for Efficient Air Quality Monitoring. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	77
52	Mediator free highly sensitive polyaniline—gold hybrid nanocomposite based immunosensor for prostate-specific antigen (PSA) detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 14763.	6.7	73
53	Current status of non-viral gene therapy for CNS disorders. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1433-1445.	5.0	73
54	Personalized nanomedicine for CNS diseases. <i>Drug Discovery Today</i> , 2018, 23, 1007-1015.	6.4	73

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55	Pesticide residues in river Yamuna and its canals in Haryana and Delhi, India. Environmental Monitoring and Assessment, 2008, 144, 329-340.	2.7	72
56	Iron oxide-chitosan hybrid nanobiocomposite based nucleic acid sensor for pyrethroid detection. Biochemical Engineering Journal, 2009, 46, 132-140.	3.6	72
57	1D semiconductor nanowires for energy conversion, harvesting and storage applications. Nano Energy, 2020, 76, 104991.	16.0	70
58	Wafer-level mechanical characterization of silicon nitride MEMS. Journal of Microelectromechanical Systems, 2005, 14, 359-367.	2.5	69
59	A facile synthesis of Au-nanoparticles decorated PbI ₂ single crystalline nanosheets for optoelectronic device applications. Scientific Reports, 2018, 8, 13806.	3.3	69
60	One dimensional Au-ZnO hybrid nanostructures based CO ₂ detection: Growth mechanism and role of the seed layer on sensing performance. Sensors and Actuators B: Chemical, 2021, 337, 129765.	7.8	68
61	Cerium oxide-chitosan based nanobiocomposite for food borne mycotoxin detection. Applied Physics Letters, 2009, 95, .	3.3	66
62	Chitosan-iron oxide nano-composite platform for mismatch-discriminating DNA hybridization for Neisseria gonorrhoeae detection causing sexually transmitted disease. Biosensors and Bioelectronics, 2011, 26, 2967-2974.	10.1	65
63	Perspective and prospects of 2D MXenes for smart biosensing. Materials Letters, 2021, 304, 130656.	2.6	65
64	Electrochemical Sensing of Cortisol: A Recent Update. Applied Biochemistry and Biotechnology, 2014, 174, 1115-1126.	2.9	64
65	Metal oxide-chitosan based nanocomposite for cholesterol biosensor. Thin Solid Films, 2009, 518, 614-620.	1.8	63
66	COVID-19: Review of a 21st Century Pandemic from Etiology to Neuro-psychiatric Implications. Journal of Alzheimer's Disease, 2020, 77, 459-504.	2.6	63
67	Organochlorine pesticide residues in drinking water in the rural areas of Haryana, India. Environmental Monitoring and Assessment, 2012, 184, 103-112.	2.7	62
68	Development of magneto-plasmonic nanoparticles for multimodal image-guided therapy to the brain. Nanoscale, 2017, 9, 764-773.	5.6	62
69	Nanocomposite Hydrogels: Advances in Nanofillers Used for Nanomedicine. Gels, 2018, 4, 75.	4.5	62
70	Nanomedicine for the SARS-CoV-2: State-of-the-Art and Future Prospects. International Journal of Nanomedicine, 2021, Volume 16, 539-560.	6.7	62
71	Prospects of low temperature co-fired ceramic (LTCC) based microfluidic systems for point-of-care biosensing and environmental sensing. Microfluidics and Nanofluidics, 2013, 14, 683-702.	2.2	61
72	Lignin: Drug/Gene Delivery and Tissue Engineering Applications. International Journal of Nanomedicine, 2021, Volume 16, 2419-2441.	6.7	59

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73	Point-of-Care Strategies for Detection of Waterborne Pathogens. <i>Sensors</i> , 2019, 19, 4476.	3.8	56
74	Grand Challenges in Bio-Nanotechnology to Manage the COVID-19 Pandemic. <i>Frontiers in Nanotechnology</i> , 2020, 2, .	4.8	56
75	High-performance antiviral nano-systems as a shield to inhibit viral infections: SARS-CoV-2 as a model case study. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4620-4642.	5.8	56
76	Emerging MXene-Polymer Hybrid Nanocomposites for High-Performance Ammonia Sensing and Monitoring. <i>Nanomaterials</i> , 2021, 11, 2496.	4.1	55
77	Recent trends on hydrogel based drug delivery systems for infectious diseases. <i>Biomaterials Science</i> , 2016, 4, 1535-1553.	5.4	54
78	Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgO-polyaniline hybrid nanocomposite. <i>Biosensors and Bioelectronics</i> , 2013, 50, 35-41.	10.1	53
79	Electrochemical Immunosensing of Saliva Cortisol. <i>Journal of the Electrochemical Society</i> , 2014, 161, B3077-B3082.	2.9	52
80	Investigation of ac-magnetic field stimulated nanoelectroporation of magneto-electric nano-drug-carrier inside CNS cells. <i>Scientific Reports</i> , 2017, 7, 45663.	3.3	51
81	Surface-engineered multimodal magnetic nanoparticles to manage CNS diseases. <i>Drug Discovery Today</i> , 2019, 24, 873-882.	6.4	51
82	Controlled self-assembly of plasmon-based photonic nanocrystals for high performance photonic technologies. <i>Nano Today</i> , 2021, 37, 101072.	11.9	51
83	Gold nanocubes embedded biocompatible hybrid hydrogels for electrochemical detection of H ₂ O ₂ . <i>Bioelectrochemistry</i> , 2020, 131, 107373.	4.6	50
84	Electrochemical sensing method for point-of-care cortisol detection in human immunodeficiency virus-infected patients. <i>International Journal of Nanomedicine</i> , 2015, 10, 677.	6.7	49
85	Nanostructured zirconium oxide based genosensor for Escherichia coli detection. <i>Electrochemistry Communications</i> , 2009, 11, 2272-2277.	4.7	48
86	Nanostructured Iron Oxide Platform for Impedimetric Cholesterol Detection. <i>Electroanalysis</i> , 2010, 22, 1045-1055.	2.9	48
87	Photoluminescence quenching of Zirconia nanoparticle by surface modification. <i>Applied Surface Science</i> , 2015, 334, 216-221.	6.1	48
88	Biomedical Applications of Nanotechnology and Nanomaterials. <i>Micromachines</i> , 2017, 8, 298.	2.9	47
89	Perspectives on 2D-borophene flatland for smart bio-sensing. <i>Materials Letters</i> , 2022, 308, 131089.	2.6	47
90	Cholesterol biosensor based on electrochemically prepared polyaniline conducting polymer film in presence of a nonionic surfactant. <i>Journal of Polymer Research</i> , 2009, 16, 363-373.	2.4	45

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91	A portable magneto-optical trap with prospects for atom interferometry in civil engineering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160238.	3.4	45
92	SARS-CoV-2 Omicron variant: A next phase of the COVID-19 pandemic and a call to arms for system sciences and precision medicine. MedComm, 2022, 3, e119.	7.2	45
93	A label-free electrochemical immunosensor for beta-amyloid detection. Analytical Methods, 2016, 8, 6115-6120.	2.7	44
94	Using a glucose meter to quantitatively detect disease biomarkers through a universal nanozyme integrated lateral fluidic sensing platform. Biosensors and Bioelectronics, 2019, 126, 690-696.	10.1	44
95	Nanomedicine-based cancer immunotherapy: recent trends and future perspectives. Cancer Gene Therapy, 2021, 28, 911-923.	4.6	44
96	Nanoparticle-mediated approaches for Alzheimer's disease pathogenesis, diagnosis, and therapeutics. Journal of Controlled Release, 2019, 314, 125-140.	9.9	43
97	Manipulative magnetic nanomedicine: the future of COVID-19 pandemic/endemic therapy. Expert Opinion on Drug Delivery, 2021, 18, 531-534.	5.0	43
98	Bio-nanocomposite based highly sensitive and label-free electrochemical immunosensor for endometriosis diagnostics application. Bioelectrochemistry, 2021, 139, 107740.	4.6	43
99	Aspects of Point-of-Care Diagnostics for Personalized Health Wellness. International Journal of Nanomedicine, 2021, Volume 16, 383-402.	6.7	43
100	Chip based single cell analysis for nanotoxicity assessment. Analyst, The, 2014, 139, 2088-2098.	3.5	41
101	Point of Care Sensing Devices: Better Care for Everyone. Sensors, 2018, 18, 4303.	3.8	41
102	<p>Antidiabetic activity enhancement in streptozotocin + nicotinamide"induced diabetic rats through combinational polymeric nanoformulation<p>. International Journal of Nanomedicine, 2019, Volume 14, 4383-4395.	6.7	41
103	Nanotechnology-assisted liquid crystals-based biosensors: Towards fundamental to advanced applications. Biosensors and Bioelectronics, 2020, 168, 112562.	10.1	41
104	Antibacterial and antiviral high-performance nanosystems to mitigate new SARS-CoV-2 variants of concern. Current Opinion in Biomedical Engineering, 2022, 21, 100363.	3.4	41
105	Aspects of high-performance and bio-acceptable magnetic nanoparticles for biomedical application. Asian Journal of Pharmaceutical Sciences, 2021, 16, 704-737.	9.1	40
106	Carbon nanotubes " chitosan nanobiocomposite for immunosensor. Thin Solid Films, 2010, 519, 1160-1166.	1.8	39
107	Electro-Magnetic Nano-Particle Bound Beclin1 siRNA Crosses the Blood"Brain Barrier to Attenuate the Inflammatory Effects of HIV-1 Infection in Vitro. Journal of NeuroImmune Pharmacology, 2017, 12, 120-132.	4.1	39
108	A self assembled monolayer based microfluidic sensor for urea detection. Nanoscale, 2011, 3, 2971.	5.6	38

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109	Silica nanowires: Growth, integration, and sensing applications. <i>Mikrochimica Acta</i> , 2014, 181, 1759-1780.	5.0	38
110	Selective ion removal and antibacterial activity of silver-doped multi-walled carbon nanotube / polyphenylsulfone nanocomposite membranes. <i>Materials Chemistry and Physics</i> , 2019, 233, 102-112.	4.0	38
111	Bio-inspired graphene-based nano-systems for biomedical applications. <i>Nanotechnology</i> , 2021, 32, 502001.	2.6	38
112	Nanobiotechnology-assisted therapies to manage brain cancer in personalized manner. <i>Journal of Controlled Release</i> , 2021, 338, 224-243.	9.9	38
113	Bioresponsive Injectable Hydrogels for On-demand Drug Release and Tissue Engineering. <i>Current Pharmaceutical Design</i> , 2017, 23, 3595-3602.	1.9	38
114	Tailored Biofunctionalized Biosensor for the Label-Free Sensing of Prostate-Specific Antigen. <i>ACS Applied Bio Materials</i> , 2020, 3, 7821-7830.	4.6	36
115	Using Graphene-Based Biosensors to Detect Dopamine for Efficient Parkinson's Disease Diagnostics. <i>Biosensors</i> , 2021, 11, 433.	4.7	36
116	Fumed silica nanoparticles-chitosan nanobiocomposite for ochratoxin-A detection. <i>Electrochemistry Communications</i> , 2009, 11, 1919-1923.	4.7	35
117	Self-assembled monolayer based impedimetric platform for food borne mycotoxin detection. <i>Nanoscale</i> , 2010, 2, 2811.	5.6	35
118	Activated carbon from sugarcane bagasse ash for melanoidins recovery. <i>Journal of Environmental Management</i> , 2017, 200, 29-34.	7.8	34
119	Biomedical Nanotechnology Related Grand Challenges and Perspectives. <i>Frontiers in Nanotechnology</i> , 2019, 1, .	4.8	34
120	A highly stable, selective, and high-performance VOC sensor using a SnS ₂ nano-lotus structure. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7713-7725.	5.5	34
121	De-coding Ag as an efficient antimicrobial nano-system for controlling cellular/biological functions. <i>Matter</i> , 2022, 5, 1995-1998.	10.0	34
122	Pesticide Residues in Bovine Milk from a Predominantly Agricultural State of Haryana, India. <i>Environmental Monitoring and Assessment</i> , 2007, 129, 349-357.	2.7	33
123	Recent Advances in Detection of Ochratoxin-A. <i>Open Journal of Applied Biosensor</i> , 2013, 02, 1-11.	1.6	33
124	Advancements in nano-enabled therapeutics for neuroHIV management. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4317-4325.	6.7	33
125	A molecular model for solid-state polymerization of nylon 6. <i>Journal of Applied Polymer Science</i> , 1992, 45, 507-520.	2.6	32
126	Hybrid Cross-Linked Polyaniline-WO ₃ Nanocomposite Thin Film for NO _x Gas Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1792-1796.	0.9	32

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127	Synthesis and optical properties of nanostructured Ce(OH) ₄ . Journal of Semiconductors, 2010, 31, 033001.	3.7	32
128	Improved Pharmacodynamic Potential of Rosuvastatin by Self-Nanoemulsifying Drug Delivery System: An in vitro and in vivo Evaluation. International Journal of Nanomedicine, 2021, Volume 16, 905-924.	6.7	32
129	From Nanosystems to a Biosensing Prototype for an Efficient Diagnostic: A Special Issue in Honor of Professor Bansi D. Malhotra. Biosensors, 2021, 11, 359.	4.7	32
130	Biosensors for Epilepsy Management: State-of-Art and Future Aspects. Sensors, 2019, 19, 1525.	3.8	31
131	Inhibition of Amyloid-Beta Production, Associated Neuroinflammation, and Histone Deacetylase 2-Mediated Epigenetic Modifications Prevent Neuropathology in Alzheimer's Disease in vitro Model. Frontiers in Aging Neuroscience, 2019, 11, 342.	3.4	31
132	Borophene as an emerging 2D flatland for biomedical applications: current challenges and future prospects. Journal of Materials Chemistry B, 2022, 10, 1146-1175.	5.8	31
133	Exploring nano-enabled CRISPR-Cas-powered strategies for efficient diagnostics and treatment of infectious diseases. Journal of Nanostructure in Chemistry, 2022, 12, 833-864.	9.1	31
134	Therapeutical Neurotargeting via Magnetic Nanocarrier: Implications to Opiate-Induced Neuropathogenesis and NeuroAIDS. Journal of Biomedical Nanotechnology, 2015, 11, 1722-1733.	1.1	30
135	MRI-Guided, Noninvasive Delivery of Magneto-Electric Drug Nanocarriers to the Brain in a Nonhuman Primate. ACS Applied Bio Materials, 2019, 2, 4826-4836.	4.6	30
136	A flower-like ZnO@Ag ₂ O nanocomposite for label and mediator free direct sensing of dinitrotoluene. RSC Advances, 2020, 10, 27764-27774.	3.6	30
137	Polyaniline@Carboxymethyl Cellulose Nanocomposite for Cholesterol Detection. Journal of Nanoscience and Nanotechnology, 2010, 10, 6479-6488.	0.9	29
138	Nanomedicine for neuroHIV/AIDS management. Nanomedicine, 2018, 13, 669-673.	3.3	29
139	Exploring coordination preferences and biological applications of pyridyl-based organochalcogen (Se, Te) ligands. Coordination Chemistry Reviews, 2022, 450, 214254.	18.8	29
140	Recalcitrant Issues and New Frontiers in Nano-Pharmacology. Frontiers in Pharmacology, 2019, 10, 1369.	3.5	28
141	Microfluidic device for trapping and monitoring three dimensional multicell spheroids using electrical impedance spectroscopy. Biomicrofluidics, 2013, 7, 34108.	2.4	27
142	Electrochemical monitoring-on-chip (E-MoC) of HIV-infection in presence of cocaine and therapeutics. Biosensors and Bioelectronics, 2016, 86, 426-431.	10.1	27
143	Advanced green analytical chemistry for environmental pesticide detection. Current Opinion in Green and Sustainable Chemistry, 2021, 30, 100488.	5.9	27
144	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.	3.5	26

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145	Multifunctional Nanotherapeutics for the Treatment of neuroAIDS in Drug Abusers. Scientific Reports, 2018, 8, 12991.	3.3	26
146	Development of Multifunctional Biopolymeric Auto-Fluorescent Micro- and Nanogels as a Platform for Biomedical Applications. Frontiers in Bioengineering and Biotechnology, 2020, 8, 315.	4.1	26
147	Precipitation of iron in microbial mats of the spring waters of Borra Caves, Vishakapatnam, India: some geomicrobiological aspects. Environmental Geology, 2008, 56, 237-243.	1.2	25
148	Peptide Nucleic Acid Immobilized Biocompatible Silane Nanocomposite Platform for <i>Mycobacterium tuberculosis</i> Detection. Electroanalysis, 2010, 22, 2672-2682.	2.9	25
149	Highly photocatalytic active r-GO/Fe ₃ O ₄ nanocomposites development for enhanced photocatalysis application: A facile low-cost preparation and characterization. Ceramics International, 2021, 47, 31973-31982.	4.8	25
150	Nanotechnology-Assisted Metered-Dose Inhalers (MDIs) for High-Performance Pulmonary Drug Delivery Applications. Pharmaceutical Research, 2022, 39, 2831-2855.	3.5	25
151	Horse radish peroxidase immobilized polyaniline for hydrogen peroxide sensor. Polymers for Advanced Technologies, 2011, 22, 903-908.	3.2	24
152	Perspectives on nano-nutraceuticals to manage pre and post COVID-19 infections. Biotechnology Reports (Amsterdam, Netherlands), 2022, 33, e00712.	4.4	24
153	Hemolytic anemia in COVID-19. Annals of Hematology, 2022, 101, 1887-1895.	1.8	24
154	Nano-structured arrays for multiplex analyses and Lab-on-a-Chip applications. Biochemical and Biophysical Research Communications, 2012, 419, 316-320.	2.1	23
155	Reversible Hydrogen Storage Using Nanocomposites. Applied Sciences (Switzerland), 2020, 10, 4618.	2.5	22
156	Neurodegenerative disorders management: state-of-art and prospects of nano-biotechnology. Critical Reviews in Biotechnology, 2022, 42, 1180-1212.	9.0	22
157	A Penalty Method to Model Particle Interactions in DNA-Laden Flows. Journal of Nanoscience and Nanotechnology, 2008, 8, 3749-3756.	0.9	21
158	Lasing behavior of surface functionalized carbon quantum dot/RhB composites. Nanoscale, 2017, 9, 5049-5054.	5.6	21
159	Nanotechnology and its application: a review. , 2021, , 1-33.		21
160	Perspectives of Manipulative and High-Performance Nanosystems to Manage Consequences of Emerging New Severe Acute Respiratory Syndrome Coronavirus 2 Variants. Frontiers in Nanotechnology, 2021, 3, .	4.8	21
161	<i>Ginkgo biloba</i> in the management of the COVID-19 severity. Archiv Der Pharmazie, 2022, 355, .	4.1	21
162	Development of TIMP1 magnetic nanoformulation for regulation of synaptic plasticity in HIV-1 infection. International Journal of Nanomedicine, 2016, Volume 11, 4287-4298.	6.7	20

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163	Novel nanoformulation to mitigate co-effects of drugs of abuse and HIV-1 infection: towards the treatment of NeuroAIDS. <i>Journal of NeuroVirology</i> , 2017, 23, 603-614.	2.1	20
164	Photoelectrochemical oxidation assisted air purifiers; perspective as potential tools to control indoor SARS-CoV-2 Exposure. <i>Applied Surface Science Advances</i> , 2022, 9, 100236.	6.8	20
165	Multifunctional carbon nanomaterials decorated molecularly imprinted hybrid polymers for efficient electrochemical antibiotics sensing. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107703.	6.7	20
166	Withaferin A Suppresses Beta Amyloid in APP Expressing Cells: Studies for Tat and Cocaine Associated Neurological Dysfunctions. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 291.	3.4	19
167	Clinical Regimens of Favipiravir Inhibit Zika Virus Replication in the Hollow-Fiber Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	19
168	Recovery of antioxidants from sugarcane molasses distillery wastewater and its effect on biomethanation. <i>Journal of Water Process Engineering</i> , 2018, 25, 205-211.	5.6	19
169	Green chemistry-assisted synthesis of biocompatible Ag, Cu, and Fe ₂ O ₃ nanoparticles. <i>Materials Today Chemistry</i> , 2020, 15, 100214.	3.5	19
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